

SUPERIOR COURT OF THE STATE OF	F CALIFORNIA
COUNTY OF LOS ANGELES, NORTH CHE	
See according to the control of the	
STATE FARM GENERAL INSURANCE	
COMPANY,	ORIGINA
	y
Plaintiff,)
)
Vs.) No. EC053578
)
ELECTROLOX HOME PRODUCTS, INC., a)
Delaware corporation; SEARS ROEBUCK)
AND CO., a New York corporation; and	}
DOES One (I) through Twenty-Five (25),	. }
inclusive,	}
	}
Defendants.	1
	}
	}
DEPOSITION OF CHRISTINE TAI	GOOW TOW
Long Beach, Californ	iia
Priday, Jone 8, 201	12
Volume I	
Reported by:	
RAMONA LUX	
C\$8 NO. 12846	
Jeb No. 147588	
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Samoff, A VERITEXT COMPANY

CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER

EHP LARSON 073722

APPEARANCES: For Plaintiff: GROTEFELD HOFFMANN SCHLEITER GORDON & OCHOA BY: BONNIE A. WILUSO Actorney at Law 655 Montgomery Street, Suite 1220 San Francisco, California 94111 (415) 344-9670 10 bmiluso@gblaw-lip.com 11 12 For Defendants Electrolux Home Products, Inc., and Sears 13 PRINCIE, AMARO, GOETZ, HILLYARD, BARNES & REYNHOWTZ 14 15 BY: CATHY DISL Attorney at Law 16 17 310 Golden Shore, Fourth Floor 18 Long Beach, California 90802 (562) 495-0564 13 odiel@prindlelaw.com 20 21 22 23 23

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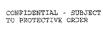
SUPERIOR COURT OF THE STATE OF CALIFORNIA COUNTY OF LOS ANGELES, NORTH CENTRAL DISTRICT STATE FARM GENERAL INSURANCE COMPANY, Plaintiff. No. EC053578 ELECTROLUX HOME PRODUCTS, INC., a Delaware corporation; SEARS ROEBUCE AND GC., a New York corporation; and DOES One (1) through Twenty-Five (25), 10 inclusive, 11 Defendants. 12 13 14 7.5 Deposition of CHRISTINS TALROT WOOD, Volume I, 16 taken on behalf of Plaintiff, at 310 Golden Shore, 1.7 Fourth Floor, Long Beach, California, beginning at 18 2:14 p.m. and ending at 6:39 p.m. on Friday, June 8, 19 2012, before RAMONA LUX, Certified Shorthand Reporter 20 21 No. 12846. 22 23 24 25

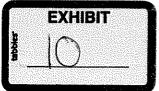
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Long Smach, California, Friday, June 8, 2012 2:14 р.ж. CHRISTINE TALBOT WOOD, having been administered an oath, was examined and testified as follows: 8 EXAMINATION 9 AY MS. MILUSO: 10 Q Bi. I'm Sonnie Miluso, attorney for plaintiff, 11 State Farm General Insurance Company, in this case. Have 12 you been deposed before? 13 And so I'm not going to waste a lot of time 14 Q giving you what happens during a deposition, but I will 15 just remind you that we should not talk over each other, 1.6 17 and so you should make sure that I ask my entire question before you start answering. I also talk fast, so if -if because I've spoken quickly or for any other reason you don't understand my question, please feel free to ask me to either slow down or to repeat the question or we can have it read back if you don't understand. Ones that 2.3 make sense? A It does, 24 Okay. And again, just as a reminder, we need 25

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	1	to make sure we have all verbal teplies, no head shaking
	2	or "uh-huh," those are hard to put down in the
	3	transcript.
	4	A All right.
	5	Q So please state your name and spell it for the
	É	record.
	7	A My name is Christine Talbot Wood, and the first
	8	name is C-h-r-i-s-t-i-h-c, Talbot is T-a-l-b-o-t, and the
	9	last name is W-o-c-d.
	10	Q And can you please state your qualifications.
	11	your degrees that you have.
	12	A I attended Stanford University and received a
	13	bachelor's degree in psychology with distinctions and
1.	14	honors, and that was in 1971 and then continued at
	15	Stanford to obtain a Ph.D in psychology in the axes of
	16	experimental psychology.
	17	Q Do you have a degree in smatistics?
	18	A 7 do not have a degree in statistics.
	19	Q Do you have any other certifications in
	20	statistics that outside of a formal degree?
	21	A i do sot.
	22	Q Okay. I'm going to ask you a little bit about
	23	your history with this case. When were you first
	24	contacted by the attorney the attorneys for this case
	25	regarding your retention?
7		Page 9
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877-955-3855

```
That would have been in late April, early May
      2012.
 3
               Do you have a record of exactly when you were
 4
      confacted?
               What I have is the date which we sent out a
      retention letter.
               Would that -- I'm sorry, what's the date of the
               It's dated May 3rd, 2012.
1.0
          Q
               Okay, And do you know -- can you tell from
11
     your retention letter what day you were first contacted
     by counsel?
1.2
13
* 4
              It would have been, obviously, before May
7.5
     30002
1.6
              Yes, shortly before that.
17
              Okay. So could it have been, you know, May
19
               MS. DIEL: Objection. Asked and answered.
               THE WITNESS: Unless that's -- unless that's a
20
     weekend, but it would have been shortly before May 3rd.
21
     BY MS. MILUSO:
22
24
          Q Okay. Can you please describe what counsel
24
     talked to you about during the first contact with you,
23
          A I don't have a specific recollection. As I
                                                      Page 9
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Okay. Weli, I'm going to mark some of the things you brought here as exhibits and obviously we can give you back your originals at the end as long as opposing counsel screes to make copies so that they can become the official record. So, first, the retention letter, can we mark that as Exhibit A. And this is the letter that you described as the retention letter sent on

Match 3rd, 2012. And would this be your acreement to be retained in this case, is that how you would describe

1355.42

So I'll put this on as Exhibit A.

(Exhibit A was marked for identification

by the court reporter and is sitached hereto.)

MS. MILUSO: And you also described a letter of, I believe, May 8th, I'm going to mark that as Exhibit

(Exhibit B was marked for identification by the court reporter and is attached bareto.)

20 BY MS. MILUSO:

Q Can you please describe what is in this letter.

This, I would describe as a letter that was sent from Ms. Diel to myself that listed various

materials that -- documents that would have accompanied

this letter. I would call this a transmittal letter.

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recall, we talked about the fact that there had been a
      dryer fire, that there were issues related to warnings
      that she would like to have addressed, and I believe also
      the schedule of activities was also mentioned.
              What do you mean, the schedule of activities,
     what do you mean by that?
               The trial date.
               For example.
              And at that time, did you have an understanding
10
11
     of whether or not plaintiff had retained an expert?
12
          A I don't recall if -- at what point, whether in
13
     that conversation, but I knew something about the experts
     that had been retained by the plaintiffs. The letter is
2.4
     dated May Sth, 2012, so that was shortly after this
```

Q Okay. I've asked you to bring your materials that you've relied upon and also any communications that you had with your attorneys. Have you brought those

discussion, included reports of some of the experts.

A I brought the transmittal letter. There may be some e-mails that I don't have here with me, that would have been transmissions of Dr. Doris's deposition and things like that, but I don't -- because I've been on the road, I haven't been able to print those cut.

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14

20

21

22

23

24

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```
Okay. And so as of May 8th these were the
      documents that you had received from Ms. Ciel regarding
              Had you received any other s-mails prior to May
      5th from Counsel?
          A 1 don't believe so.
              Okay. Do you recall if you've received any
     other communications, any other e-mail or written
10
      communications from Counsel, since May 8th, since this
11
      and the accompanied documents that follow in Exhibit B?
12
          A Oh, there might be some related to changes in
13
      time frames of this deposition.
14
          0
              Regarding scheduling of when your deposition
15
     would occur?
16
          A
               Yes, scheduling.
17
              Oksy. You brought with you what I believe is a
18
     list of materials that you reviewed regarding this case,
13
     and one was originally attached to your report;
20
     annennet 2
21
22
              Okay. I'm going to -- do you have a copy of
     your report with you?
          A I do.
25
             Okay. I'm doing to mark that as Exhibit C.
                                                     Page 12
```

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(Exhibit C was marked for identification by the court reporter and is attached hereto.)

BY MS. MT1.080:

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3

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8

Ç,

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17

3 8

19

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2.2

23

24

Q Okay. So I believe there was -- and I just want you to verify that this is the original report that you submitted, and it's dated June 4th; is that correct?

A Yes.

Q Ckay. There is -- on page 9 of your report, can you please describe what this page is.

A Yes, this is a -- list of materials, is the heading. It includes a list of those materials that were sent to me by client -- by my client, and then also additional materials that I reference in the body of my report.

Q Ckay. And you described prior to the beginning of this deposition today that you have an additional list of materials, and can you please tell me what's on that list and how it may differ from the list that was in your original report, Exhibit C.

A Okay. This list, again, includes the list of materials that were provided to me by my client, and then in addition -- at the time of my report, and then in addition, there is a listing of four additional items that were sent to mo after having propored the report.

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Q Also a photograph of a Sears, quote unquote, 800 number by Michael Stoddard and that, again, you received that after the 4th?

A On or after the 4th.

Q Okay. And the deposition of Alan Doris dated 6/5/12, a rough and final version, I know that Mr. Doris's deposition was on the 5th, if I recall correctly so -- oh, yes, because it says the 5th, so yes received it on or after the 5th?

A Yes. That, we can sail down.

Q Okey. You testified that you don't recall a specific conversation that you had with opposing counsel ~- I meen, with counsel when you first were recained, but did they tell you what, you know, the scope of what they would like you to be testifying about in

A Well, I don't recall the specifics of the conversation but there was a specific conversation, and as I racall, what I was asked to address was related to warnings issues with respect to this incident.

Q Gkay. Have you testified or have you been retained in other cases regarding Electrolux dryets?

A I have.

Q In how many other cases?

A I have testified in two provious Electrolux

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This list does not contain the items that were cited in my report that were not sent to me by the client. O Chay. So the list that we're going to mark as Exhibit 0 is essentially a supplemental list to your remart. 3 (Evhible in was marked for identification by the court reporter and is attached hereto.) BY MS. MILUSO: Can you tell me when you received the additional documents that weren't -- and that are at the 10 end, those four notations, I believe -- I'll read them 11 in, the Sears protection -- we'll just do it one by one, 12 I apologize -- when you received the Sears protection 13 agreements brochase, dated May 2011? 14 A I can't give you a specific date. They're 15 going to be -- the report is dated June 4th, obviously 16 3.7 they're going to be this past -- during this week. So it would have been after June 4th? 18 It would have been after. I believe it's after 20 the 4th or perhaps even contemporaneous with the 4th. O Okay. There's also an extended warranty 21 agreement screen shot for Alencosh Adamian, and do you 22 recall if this was provided on the 4th or after the 4th; 23 24 is that correct? A That's my memory. 25

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dryer fire cases.
              And when you say "testified," does that mean
          n
     you were deposed?
               Have you ever testified in trial?
               Well, not in any dryer fire cases.
              Oray. Can you tell me what -- the two cases
     that you've -- where you've testified at least as a
10
     deponent or an expert witness prior to trial, can you
3.5
     please tell me the name of those two cases.
12
          A Yes. One is -- well, it's -- the mase of the
13
     family that -- whose dryer was involved is Slabach and
14
      the other is Powers.
16
          Q Do you know who the plaintiff is in the Slabach
      case, if it's an insurance company?
              Yes. These were both -- they both involve
18
          Ą
19
     insurance companies.
              Do you think they both involve the State Farm
          Ω
20
21
     General Insurance company?
22
              I don't know.
23
              Okay. And can you tell me who your client is
     in those cases, in the Sisbach case? Would it be fair to
```

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assume that your client is Electrolcx Home Products, at

least one of your clients in that case? A That would be the entity that likely is being 2 3 represented by my client. And who is your client in the Slabach case? I can't remember the name of the law firm. Do you know what state they're in? Ckay. Riley Bennett & Egloff, does that ring a 8 Q bell in Indiana. Mary Reeder (phonetic), does her name 9 ring a bell? What about Sarah MacGill, does she ring a 10 11 7.2 Those names do ring a bell. O So it's possible that these are your clients in 1.3 that case, the Riley Bennett & Egloff firm? A It's possible. I just don't have a very clear recollection, obviously. Q Okay. And did you write a report in that case, 17 in the -- what you call the Slabach case? 19 A [believe I did. 19 I'm going to hand you what I'm going to mark as 25 Exhibit E. I applosize, it's not stepled and it is 21 22 (Exhibit E was marked for identification 23 by the court reporter and is attached hereto.) 24 BY MS. MILUSO: Page 17

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Sears Roebuck & Company that your client also represents
              Okay. Have you issued reports in the Powers
5
     case?
              I believs I did.
               Or a report?
               I believe I did.
               Okay. Have you formed any opinions in this
     case based on your review of the materials?
10
1.1
               Okay. And are those opinions sat forth in your
12
1.3
     report?
14
               They are.
               Okay. Can you please tell me what your
          Q
1.5
16
     ominions are in this case.
          A The overarching primary opinion is that warning
12
     and safety information about factors associated with
13
     dryer fires and cleaning provided by Electrolux were
19
     reasonable and adequate in terms of location and
              Do you have any other opinions?
2.2
          A That's the broad overriding opinion, and there
2.3
     may be -- within the body of the report, there may be
24
     subopinions and there may be things that come up in the
25
```

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Dogs this look like your report from the
     Slabach case?
               Okay. So were you retained in the Slabach case
     to also talk about warnings issues?
              On behalf of Electrolux?
              f was.
              Okay. Do you recall if you were -- if your
     client represents any other entities is the Slabach case?
10
     Por instance, let's say Sears Roebuck & Company or
11
12
     another company?
1.3
              Okay. You also mentioned a Powers case, and
14
     can you tell me if you recall who the plaintiff is in the
1.5
16
     Powers case?
              It's an insurance firm.
17
              okay. On you know who your client is in the
19
     Powers case? Let's make it easier, based on what you've
19
     said earlier, this would be another case where your
20
     client is the -- are the attorneys for Electrolux Home
              I think -- they are going to be representing
23
     Electrolum to the matter.
24
              Do you recall if there's another entity like a
25
                                                      Page 18
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deposition today, but those certainly are the ultimate
2
     opinions I reached.
          C Ckay. Why don't you describe to me how you
ŝ
     came to those opinions. What is the basis for those
     opinions that the warnings are adequate?
          A The -- what I examined was the -- first, the
     labeling that accompanies the dryer and labeling that is
          O Okay. And do you have copies of those labels
     that you have reviewed with you?
10
              Yes.
11
          A
              Okay. Can you please get them out of your
          0
3.2
13
     materials.
          A They are to the tabs -- they are related to the
14
     first four tabs of this binder.
1.5
          O Ckay. Well, lot's just stark going through
     them so we can mark them. Maybe we'll do the first tab.
     Can you describe the name of that tab.
              This tab is labeled "Dryer Warning Labols and
3.9
     Checklist."
20
              Okay. So I'm going to -- let's look at that
21
     first one, I believe it's the checklist. Can we take
22
     that got of the your binder; is that okay?
2.3
24
              Stre
25
              I'll try not to mass it ap.
                                                    Page 20
```

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Okav. Thank you. 2 Ö That's the set that's from there. 3 Okey. Well, I'm going to mark these all together as Exhibit F, and we'll just call the first page here F-1, so we can kind of keep them together for you, it might be easier for later. (Exhibit F was marked for identification by the court reporter and is attached hereto.) 9 10 BY MS. MILESO: 1.2 Q Why don't you tell me what -- at least what you 12 believe this document represents. A And by document, are you thinking that this is 13 going to be F-1 and that's F-2? Q Yes. So just F-1, can you describe what your understanding of what that represents? 17 A Yes. My understanding is that this is -- it is entitled "Follow this checklist for best drying 18 performance," and my understanding is that this is a 19 document that is placed on the dryer and is available 20 for -- it's on the exterior of the dryer and can be a 22 22 temporary ishel. 23 Okay. So do you know in -- where -- when you say "a temporary label," is that one that can be removed; 24 Page 23

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Chay. Do you know whether Electrolux would have put that temporary label or chacklist on the product or whether Sears would have done that? f death know. Okay. And do you know how it was affixed to 5 ٥ the dryer? ė Α My understanding is that it is typically Do you knew what kind of tape is used? I'm 19 sorry that that sounds petty, but I want to know how this 12 was affixed, if you know. A I don't know what type of tape is used. 13 Do you know whether that's taped on the outside Ò 3.4 1.5 or the inside? My understanding is it appears taped on the 16 Ä 17 cutside of the dryer. 1.9 What's the basis for that --This is testimony, I beliave, I've read from 19 20 Carl King. Okay. And that was in a different case? 22 I believe it is, yes. Okay. And Carl King, if T am correct, is an 23 employee of Electrolex? 24 Yes. 25

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```
It is, It is one that is removable.
              So do you know whether this thecklist that
     you're seeing in F-1, whether this was on the dryer that
     the insureds in this case, we'll call them the
     Haroutomovans, N-a-r-o-u-b-o-u-n-v-a-s-s, Haroutomovans,
     Do you know if this checklist was on the Baroutounvans
              I haven't seen a photograph with it being
     present in the pictures that I've looked at
10
     postincident.
11
12
              And I haven't seem testimony with respect to
13
     it. My understanding is that it's the custom and
     practice for Electrolux dryers to arrive with this
14
15
     checklist on them.
          O Okav. But we -- but based on materials you've
16
17
     reviewed, you don't know if this checklist was on the
18
     dover that the Maroutounyans purchased when they
19
     purchased it?
          A I don't have any independent, specific
     knowledge beyond that this is the practice that
     Electrolux typically follows.
23
          Q Okay. And in this case, it's your
     understanding that the dryer was actually sold by Sears;
24
     is that correct?
25
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Page 22

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And he works as a safety engineer; is that
1
     correct, based on your understanding?
               I don't know exactly what his title is.
               Have you ever talked to Mr. King directly?
               In what direcustances have you spaken to him?
               It was related to a different incident that was
      about to have some kind of a bearing.
          Q Go you remember if it was either the Slabach or
     the Powers case?
10
              I don't believe it was either one.
11
3 >
              Well, let me ask you a question. Has
13
     Electrolar itself ever retained you either as a
3.4
     consultant or as expert outside of what you described to
15
     me today, this case, the Slabach case and the Powers
     case, has Electrolux ever retained you?
17
          A In -- directly, as opposed to going through an
     attorney; is that the question?
18
19
          Ó
20
               Not that I recall,
          A
               But you've spoken to Mr. King directly?
21
          O
22
          20.
               Yes.
23
               And can you tell me about the content of the
24
     conversation -- have you spoken to him more than once or
     was it just one occasion?
                                                     Page 24
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One occasion. It was just before a hearing was shout to go forward that next day. 2 O Okaw. Or perhaps it was the day after, and in the end, the -- someone got ill and wasn't able to make the hearing. The hearing them yot postponed and in the end, So what was your -- can you describe the content of your conversation with Mr. King in that 1.0 instance? Well, this has now been a while auc. 7.1 12 O When was it? Mot 2012. Was it 2011? A That's what I'm trying to see if I can -- I'm working my way back. 17 I'm having trouble finding anything to hang it 15 19 cn. Well, let me ask you a specific question, maybe 20 that will refresh your recollection. Old he talk to you 21 about the warnings on an Electrolux product? 22 23 A It was a general topic but not specific to any particular dryer, that I recall. 24 O Was it relates to a specific -- I want to make

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related to a specific case? Yes. I was there related to a specific case. And it was a case in litization? Okay. And do you remember if it was regarding Ó a dryer? 7t was. It was a dryer-related case, yes. Α Okay. And during that conversation, did you ger an understanding of the nature of the case? Was it a 10 dryer fire case, do you recall? 11 12 It was a dryer fire case. 13 Okay. And you never testified in that case 14 though? Yes, as far as I know, no arbitration went 15 Α forward. 16 And you weren't deposed in that case either? 17 And my understanding was there wasn't going to 18 A 19 he -- there was never a plan for a deposition. Did you write a report in that case? 20 21 I don't recall having written a report. Okay. So you described the basis of your 23 opinions partly on what you've reviewed, on what you helieve were the labels or the warnings on the product at 24 the time and the use and care guide that came with it and 20 Samoff, A VERTTEXT COMPANY

it clear, it wasn't just an independent consulting

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all the materials that came with it?
        So what is on this checklist that is F-1 that
you describe as an adequate warning of the risks
associated with this dryer?
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A Well, this piece of information covers the need to clean the lint filter. It also describes the process of what a driver does and factors that can impact its performance, such as the length of duct runs and things like that: then in addition, there is a reference to the type of vent system that attaches the dryer to the wall in terms of that venting portion and the appropriate kind of component to have there.

Okav.

And it specifically mentions the fact that lint can restrict air flow and become a fire hazard.

Okav. Does it -- on that checklist that you're reading, does it mention anything about the need to clean -- have an authorized servicer clean your dryer or service it every 18 months; is that mentioned on this checklist?

This one does not have that information on this label. It does say to read and follow all installation instructions and to read the owner's quide and operating instructions.

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Okay. But it doesn't may specifically on the checklist itself to --

That's correct,

Okay. Let's go to what I've marked as F-2 from your first tab and I think it says -- lu's labeled "Druge warning No. B1318241" and I think it has a date on it. denuary 12th, 1999. And why don't you tell me how this is the basis of your opinion that there were adequate

A The -- and I've talked about these all in cerms of location and content -- this label is one that is on the dryer itself and tends to be permanently there. The warning specifically mentions and identifies fire as a hazard and notantial for personal injury. It covers a number of different aspects of what consumers can do to reduce the chance of fire occurring. It includes cleaning the list screen before or after each load, but it has a number of other important pieces of information about don't dry things that are made of foam, rubber or rubber-like products and concerns about flammable and combustible liquids and then identifies as a separate caution that a clothes dryer produces combastible lint, must be exhausted outdoors, care should be taken to prevent the accumulation of lint around the exhaust opening and the surrounding area, and then there's

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information about specifically a telephone number that can be called 24 hours a day, seven days a week to schedule a Spars repair service, so this would be a label that's directly permanently on the dryer.

- Q Okay. Based on what you just read and what we can see here on Exhibit F-2 there's nothing specifically on this that instructs the purchaser or the consumer to have an authorized servicer come out every 18 months to clean the inside of their dryer; is that correct?
- That's correct, that specific information is P. not there.
- O Okay. And I'm going to give you F-3, which is called "Label Clearance B1317832" and it has a little "Rev" for F. which I think is revision F or revised F but there is an F there, and it is dated August 13th, 1998. I'm going to show that to you. Can you tell me what warning that includes?
- A This warning specifically states "To reduce the risk of fire, this appliance must be exhausted outdoors, see installation manuals" -- "installation instruction manuals." and then it has a table that identifies the minimum jostallation clearances in inches depending on where the dryer is installed within a home or some other location, and that is a label, again, that is on the dryer itself.

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and that's "Label-Prefabricated Home/Closet 8" --31 "Nome" -- 1'm sorry, "Home/Closet, B1314637, Rev," whotever that means, "D." April 12th, 1995 is the date 13 and I'll hand that to you, and I think this is a small 14 label, and again, these are all things that would have 15 been offixed to a dryer I'm assuming? 16 Yee, my understanding is that this is another 17 Tabol that's affixed to the dryer. าล 19 Okav. This label says, "This dryer is suitable for 20 pre-manufactured home installation" and again refers people to "see installation instructions for installation 23 standard and closet and exhaust kit part numbers" and then it's also covered in the other languages. 24 Q And again, from what I've reviewed it doesn't 25 Page 30

Okay. And again, that label doesn't say that

And I'm not -- I am not going to -- what I'm

Sure, I respect that, we'll consider it based

reading into the record is not everything that's on the

label. This information is presented again in Spanish.

on everything that's on the label, not just what you

read, and I'm going to give you what I'm marking as F-4

you need to have it cleaned every 18 months?

That's correct.

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have anything, at least that we can tell, that says it should be cleaned every 13 months; is that correct?

- A It does not specifically say that on that
- Oksy. So is it your understanding that these labels were -- or would have been -- or should have been affixed to the dryer of issue in this case, the Haroutounyans' dryer?
 - A Yea.
- And has your client told you this is the totality of what would have been affixed and all of the stickers that were on the dryor in this case?
- A My understanding is that those are all the warning-related stickers.
- Q Okay. And in this case obviously there was a fire so certain tabels that may have been affixed may have burned off, so I just went to make sure that it has been represented to you that this was everything that should have been on the dryer at some point regarding warnings?
 - A Regarding warnings, yes.
- Okay. I just wanted to make sure that's clear. So none of these, though, say that you need to clear your droor every 18 months, that's not on any of the labels that would be affixed to the dryer; is that correct?

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That's correct.

- Okay. And your opinion is that the warnings were adequate. So do you think that a consumer should be warped about a need to clean something every 13 months in order to avoid fire? Do you think that would be a fair statement that consumers should be warned of any cleaning they need to do to avoid fire?
- A If that is something that a manufacturer believes to be important, then that is something that consumers should then be warned about.
- Q Do you think something as important as the risk of fire should be warned on the machine and -- in a permanent label that they can see?
- A The -- most of the information that we've been talking about related to the labels that -- F-1 through P --- well, maybe not F-4, but F-1 through F-3 relate to consumers about fire, and so that is very ruch the emphasis of these labels in terms of content.
- O Okay. If we were to assume in this case that the line accumulation that either caused or contributed to the fire was in an area that the consumer could not see, does that change your opinion at all requiring whether the on-product labels were adequate?

MS. DIEL: Objection. Incomplete hypothetical.

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BY MS. MILUSO:

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- You can answer, if you can. O
- To -- assuming that these are the labels on the product and that it's not the only information that is provided with the product, with the dryer, there's other information that these labels refer to, that all of this information together represents information that's adequate and reasonable with sespect to issues related to this case and issues related to your question.
- O Okav. Is it your belief that not everything meeds to be not on an on-product label?

MS. DIEL: Objection. Vaque and ambiguous. BY MS. MILUSO:

Q Do all -- I'll rephrase. Do all warnings need to be on on product labels?

MS. DIEL: Objection. Vague and ambiguous, overbroad

BY MS. MILUSO:

- O You can enswer, if you can.
- A If -- the question really relates to manuals that go with equipment versus -- that may contain safety information and warnings that are placed on the equipment itself, typically for most produces, all of the information that's contained in a manual is not placed on the product, so a subset of that information is -- as a

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likelihood of those incidents, so sometimes you make decisions based on that. Other times you right make a decision based on whether a general population of users might already know about that hazard, and in that case, you might not warn about it at all.

- o Okav.
- So there are lots of different factors that relate to making a decision.
- Q Okay. So the -- but it's your belief based on what you know about this case and the circumstances and the mechanism of the fire in this case that as far as on-product labels these were sufficient and adequate?
- So -- and I'li just refer to your report, which I think we have as Exhibit A, but I'm locking -- no, I'm sorry, it's Exhibit C. okay. So that in this case there was -- I'm sorry. I just went to make sure that I have the basis for your opinions on what happened in the fire so I'm going to find that here. Hold on. Why don't you just describe for me, what is your understanding of what caused this fire. I know that you're not an expert in the area of cause, but based on your review of the materials, what do you believe caused the fire?

MS. BIEL: I'll object on the grounds that it calls for an expertise that we are not providing this

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typical practice is placed on the -- on a product, on the equipment, on an appliance, and more information than -more extensive information is provided in the manual. O Skay. And based on your experience as an expert and your research, how -- what things -- based on your experience, what warnings need to be on products, what types of warnings need to be on a product as opposed to a user oulde? MS. DIEL: Objection. Vague and ambiguous, 20 1.1 MS. MILUSC: If you can answer based on your experience. 12 THE WITNESS: Well, there are all kinds of 13 1.4 debates about that. ξħ BY MS. MILHISG: I just want to know your opinions on it. 16 17 ME. DIEL: Same objections. TRE WITNESS: One of the things to consider is 1.8 what the guidance might be in a standard or even in some 19 cases regulations that suggest locations for information, so that's something that I would look toward and consider 21 22 in making that decision. Other instances relate to what kinds of information might be -- might be must directly 23 related to maybe the greatest number of potential 24 incidents or the severity of those incidents or the 25

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witness for.
               MS. MILOSO: And I'm not asking her on that
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     basis.
                So you can answer fust on your review of the
     materials what you understand to be the cause of the
      fire. I'm not going to hold you to it as what was the
      actual cause, I know your not an expert on that.
               THE WITNESS: My understanding -- so yes, I'm
      absolutely not an expert in fire cause and origin and
      those agreers or how to design a clothes dryer, but my
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     understanding of the allegations here is that lint built
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     up in some part of cither the dryer itself or the exhaust
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     system of the dryer and that that was ignized.
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      BY MS - MILLISON
          Q Okay. And so based on -- and obviously there
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      was a fire in this case; right? I mean, we can assume --
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- let's assume there was a fire that started in the dryer.
- Okay. And I believe for purposes of the rest of the deposition, let's assume that the fire started in the dryer because that's what the engineering expert for voor client has said, so let's start with that understanding so we can have a meaningful porsuit in the
- 23 24 rest of this deposition. So either the list in the
- inside of the druer or in the exhaust vent caused the

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first is that your understanding of the cause in this 2 MS. DIEL: Objection. Beyond the scope of her expertise. But you can answer. THE WITNESS: My understanding is that it was the lint that was ignited. BY MS. MILUSO: 9 o Okay. And do you know where the lint ignited, which portion of the lint, whether in the exhaust vent or 10 I don't have any independent knowledge of O Okay. Do you know if the lint was in an area 14 that you could . that a regular consumer could see? 15 A My understanding of the allegation is that it's 16 not in a place that a consumer could see. 1.7 Q Okay. Let's get to the operating instructions 18 or the owner's manual that came with this product. Do 1.9 you have those, were those provided to you? 20 A I do. 21 Okay. Let's mark as Exhibit G what you have 22 C 23 behind your tab. 24 Operating instructions. There you go, okay. Page 37

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is specific information about the need to keep the lint screen clean and exhaust the dayer correctly. O Okay. You read and took notes, I believe, on the testimony of our -- the insureds in this case, Mr. Harostonsvan and Ms. Adamian; is that correct? 4 A Yes. And didn't they testify that they cleaned the line filter every -- you know, most of the time, if not ¢ A I think she estimates that she did it 90 1.0 percent of the time. 11 All right. Let's do to the user manual. 12 Again, we haven't come across any warning yet having to 13 do with having he clear your dryer every 18 months, so 3.4 lot's see if it's in that -- the guide there that we're 15 going to mark as Exhibit H. and this is Kenmore Bryer Use 16 and Care Guide, and has your client represented to you 17 that this was the use and care guide that accompanied the 18 19 A That is what I've been given to understand. 20 (Exhibit H was marked for identification 21 by the court reporter and is attached hereto.) 22 BY MS. MILUSO: 23 Q Okay. Why don't you -- we'll go to -- I think 24 it's page 3. And on page 3 here is important safety 25

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by the court resorter and is attached hereto.) Did your client tell you that these are the operating instructions that accompanied the dryer in this Can you tell me what warnings are contained in o these operating instructions, if any? 10 There are --Regarding fire, risk of fire, let's do that. 11 12 There is, first, the reminder to read your driver use and care quide, then it says specifically, "To 13 reduce the risk of fire, electric shock, or injury to 14 persons, read the important safety instructions in your 15 driver use and care quide before operating this 16 appliance." There are -- is addition to information 1.7 18 about the controls and use of the controls, there's information warning people not to use heat to dry certain 1.9 kinds of items.

(Exhibit G was marked for identification

Q Is there anything on those -- what did we call them, operating instructions, Exhibit G, that warns the insured about having to clean a dryer every 18 months to avoid the risk of fire?

A There is not that specific information. There

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instructions, and here, why don't you tell me the warning that has the warning regarding every 18 months, I believe this is the location, having to cleam your dryer every 18 months.

A — It's one of the locations. It is indeed on

page 3 and it's under a section called "Important Safety Testructions" and "Resd all instructions before using this dryer," and specifically under that it's warning, "To reduce the risk of Fire, electrical shock, or injury to persons when using this dryer comply with the basic warnings listed below. Failure to comply with these warnings could result in serious personal injuries." And then it's under a heading that says "Prevent Fire," and within that is a warning that says "Clean the lint screen before or after each load. The interior of the dryer. lint screen housing and exhaust duct should be cleaned approximately every 10 months by qualified service personnel. An excessive amount of lint build-up in these areas could result in inefficient drying and possible fire," and then it says to "See care and cleaning, page Is there any -- how many other warnings are

listed on that page with the warning that you described regarding the 18 months? How many warnings are on that page?

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- A With respect to prevent fire?
- $Q_{\rm c}$ Suze, or just in general, and then you can tell me about fire.
- A Well, there are -- under "Prevent Fire" thece are eight separate pieces of safety information that are preceded by the word "Warning" or the signal word "Warning."
- Q Oxay. And would you agree with the statement that the effectiveness of a warning about a given hazard is likely to decline when it must competes with many other warnings and other stimuli for product user's attention?

MS. DIEL: Objection. Vague and ambiguous, overbroad, incomplete hypothetical.

THE WITNESS: There is research both in psychology in general and in warnings research that the more information there is, then the more difficult it is to remember it all.
BY MS. MILUSO:

- Q Okay.
- A And then with respect to warnings, the more warnings that there are, those is differences in the amount of information that people can retain as the amount of information increases.
 - Q Okay. I'm just going to repeat this because I

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there was a -- that a consumer could have been potentially overwhelmed by the number of warnings and may not have hooded all of them because there are so many on one sheet?

MS. BIEL: Objection. Vague and ambiguous, overbroad, incomplete hypothetical.

THE WITNESS: Well, my understanding in this instance is that Ms. Adamian never read any of the information in this manual, so it would be irrelevant to her in terms of the number of specific things that were cited, and Mr. Haroutomyan, he -- he talks shout glancing through it but couldn't recall any of the information that was contained in here, and he was not the -- he was -- very seldem used the dryer. So for these purticular people, I believe that that whole issue was largely irrelevant.

Q Would it have been irrelevant if that warning label was on the product itself, clean it every 18 months, do you think that they most likely sould have read that had it been on the product?

MS. DIEL: Objection. Vague and ambiguous, everbread, calls for speculation.

MS. MTLOSO: She's an expert and she can testify to what she believes as a human factors expert.

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Sarnoff, A VERITEXT COMPANY 877-955-3855 don't think you exactly answered my question. I want to know if you agree with this statement and then it's a "yes" or m "no." I don't mean to bek you in but that's the question I'm asking.

A Okay.

Q Do you agree with the statement the affectiveness of a warning about a given hazard is likely to decline when it must compete with many other warnings and stimuli for a product user's attention; do you agree with that statement?

Ms. Plbh: Objection. Yague and ambiguous, overbroad, incomplete hypothetical.

THE WITNESS: I think it will be specific to the product and kind of information that's being presented.

BY MS. MILUSO:

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O Okey. In this case there is a defense that, you know, these insureds did not follow the instructions because they testified that they never had their dryor serviced by an authorized servicer and definitely not every 18 months, so the defense is that they didn't follow the warnings, and I want to know whether you think that -- because it's an allegation in this case whether there were -- you testified there were eight other warnings on the sheet, do you think that it is -- that

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Q What you believe in the case based on what you've read about what they've done, whether or not -whether you think an on-product label would have increased their likelihood to have read it.

MS. DIET: Let me just interpose the same objections and incomplete hypothatical.

THE WITNESS: The -- I haven't seen any testimony that says whether they read any of the labels on the dryer at all, and having intermation on the dryer itself does not automatically increase the likelihood that somebody is going to read it. We have people in this case who have had previous experience with a dryer. they've used a dryer before and they used a dryer without incident before and the -- so users who are familiar with a product, even though it might not have been necessarily an Electrolux dryer, it's difficult then for a manufacturer who can provide instructions and labels on their product and information in manuals to have people read that information. And that is, you know, an early study that Dr. Doris did where he had people using hammers and each hammer had a warning on it that -- of the hundred people tested no one even noticed that there was a warning on the hammer. So that has been a finding that has been replicated by others as well. BY MS. MILUSO:

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So what, in your opinion, should a manufacturer of a product that poses a risk of fire do, if anything, to adequately warn or prevent injury? Isn't that the point of warning, to prevent injury or accidents? MS. DIEL: Let me just interpose an objection. It's vacue, ambicuous, everbroad, it's argumentative and an incomplete hypothetical.

BY MS. MILUSO: o Can you just state what you believe the purpose of warmings is to be, let's start there. What is the purpose of a warming?

A The purpose of a warning in general is to provide information, a message, to reduce injury, or in this case, recuce the risk of fire and provide information in such a way that hazards are potentially identified and what steps can be taken to avoid them.

Q Okey. And would you agree with the statement that hazards that a consumer knows, they're more likely to avoid: would you agree with that statement?

MS. DIET: ['11 object on the grounds that it's vague, ambiguous, overbroad and an incomplexe

You can asswer.

THE WITHESS: I den't understand the 24

question.

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Okzy. Do you agree with the statement that the

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time and effort that a person is likely to devote to any given warning message is likely to suffer as a number of competing messages on the same product and on other araducts in the users' environment increases? WS. GIRL: I'll object on the ground that it's vague, ambiguous, overbroad and an incomplete THE WITNESS: Well, generally, the more information that there is that has to be processed, that represents a certain cost in effort, in information processing effort, and as that increases, either people will make a decision to invest or not. BY MS. MILUSO: Q Ckay. And in this case you've provided the opinion that the warnings on this product were -- and I believe we've gone through all the -- unless you disagree with me, we've gone through all the warnings on this product, is that correct, that accompany the product; is MS. DIEL: Objection. Did you go through everything? MS. MILUSC: I don't know. Did we miss anything regarding warnings that accompanied this product?

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BY MS. MILDSO:

Q Okay. So my question is -- I'll give you a hypothetical. If you walk out to your car in the morning and you see that your back tire, back left tire, is, you know. low, almost touching the ground and you can see that it's low, would it be reasonable to assume that a consoner who can see that would be less likely to drive in that car because they know it could pop and be unsafe, is that a reasonable assumption based on your experience?

ii MS. DTEL: Objection, Incomplete hypothetical.

THE WITNESS: I can't speak sufficiently to that kind of specific example. What I do know is that often times people are aware -- totally aware of bazards. the basard is well understood and becole will still take risks and will still take chances for a whole variety of reasons. So having the knowledge doesn't necessarily make people act on that knowledge. BY MS. MILUSO:

Q Okay. And, you know, providing a warning doesn't necessarily mean that the warning is going to be followed: is that an accurate --

24 A That is sight. The warming can't is and of itself make people act.

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THE WITNESS: Well, there's a comment that's
     called the installation instructions.
     BY MS. MILUSO:
              Do you know if the installation instructions
     accompanied the product and were distributed to the
              Well, it's Electrolux's practice to include
     those with the other material that's to be left with the
     consumer.
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          O Do you know if in this case the consumer
     actually read the installation instructions?
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              Oh, my understanding is that certainly --
               I know it's hard, you can say the busband or
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      wife if it's easier?
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          A My understanding is that the wife didn't read
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     say of it and I don't recall any testimony that the
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     husband did.
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          Ø
              Okey. And do you know whether or not the
     consumers themselves installed the product or whether
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     someone else installed the product?
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              Oh, in this case?
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              Oh, my understanding is that they absolutely
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     gid not install it themselves. They had somebody install
     it and I believe it was related to Sears.
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                      Samoff, A VERITEXT COMPANY
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Okav. And so if the Barcutounyans -- or the hashand and wife didn't install it and they had a company install it, would it be -- is it unforeseeable that they're not going to read the installation instructions, based on your experience as an expert? Well, they may or they may not. This has

Sears's name on it and it says "Save these instructions." ir will depend on what they're interested in. These are labeled "Testallation instructions" and these -- these meonie are not doing the installation but if there was something that came up related to the performance, for example, this might be a document that they would refer

Okay. Well, if no issue came up in relation to performance, mesning everything was functioning properly, is it your belief as an expert that the consumer would go back to their product manual for any reason if it was working properly?

MS. DIEL: Objection, Vague, ambiguous, overbroad, calls for speculation and an incomplete

THE WITNESS: I think it will depend on the consumer and their wish to seek information and whether they are -- decide to look for information, so it's very much consumer driven.

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more than five years ago.
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              Is it more than ten years ago?
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               I don't think so.
               is it more than seven years ago?
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               I don't know.
               But sometime -- it's over five years old?
               Okay. Have you ever had it serviced?
 ٥
               I don't recall having it serviced.
               Okay. And have you ever had any problems with
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     its parformance?
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               No.
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          Α
               Have you ever had it classed? And when I say
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     "cleaned" I mean have you ever had an authorized servicer
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     come in and clean your dryer?
              I have not.
17
               Have you ever had someone clean your vent
19
               Do you remember when you had someone clean your
     ducts?
21
               I believe it was at the time when I had the
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     roof redone.
              And was it part of your -- just toe maintenance
24
     performence or was there a problem that led you to have
                                                      Page 51
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BY MS. MILDSO:
               Gkey. You're a consumer; right?
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               I am a consumér, ves.
               Do you own a dryer?
               Do you own more than one dayer?
               And is this dryer in your residential home,
     your personal permanent residence?
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          Α
               And is it located within your own unit? I
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     don't want to make assumptions about where you live, but
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     is it located within your own unit as opposed to like a
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     launder room in your building?
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               Do you know who made that dryet or what the
17
     brand name is on your dryer?
              I believe it's Amana.
1.19
               Do you -- did you purchase it?
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               And do you know when you purchased it?
          o
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               I don't.
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               What -- can you give me a range? Did you
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24
     ourchase it a year ago or more than a year ago?
               No. it's more than a year and and I'd say it's
25
                                                     Page 50
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Samoff, A VERITEXT COMPANY

CONFIDENTIAL - SUBJECT TO PROTECTIVE CROER

EHP LARSON 073771

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those ducts cleaned?
             I think it was prompted by the fact that --- as
     I recall, it was related to I was replacing the roof and
     that's where the outlet -- the exhaust outlet is.
          Q Do you know if you -- do you know how -- the
     configuration of the ducts in your home, do you know how
     they're configured?
          A In terms of the part between the walls?
               Yeah. Retween the walls, yeah.
              I don't specifically know. I know it's vented
10
          λ
11
              Do you know how for it is from the back of your
12
     dryer to the exterior of your home? I mean, I'm just
13
14
     asking about what you know about your own dryer.
               MS. DIEL: Objection. Irrelevant.
15
     BY MS. MILUSO:
16
              well, to be fair, Mr. Doris went through the
17
          0
     same lice of questioning, so I'm going to go through this
18
19
     with you as well.
20
              The dryer is on the second floor of the house
22
     and the vent outlet is fairly directly above that, I
22
               Okay. So it travels upward you believe. Does
23
     it go up to your roof?
24
25
               Yes.
                                                     Page 52
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Samoff, A VERITEXT COMPANY 877-955-3855

	M20MP27
1	Q So it vents onto your roof?
2	A It does.
3	Q Do you know how far it is from the back of your
4	dryer to the roof, just an estimate, or is it less
5	than 3G feet?
6	MS. DIEL: Objection. Irrelevant.
7	THE WIINESS: I don't know.
8	BY MS. MILUSO:
9	Q Okay. Have you ever looked inside your exhaust
10	vent on the back behind that goes behind your dryer on
11	the wall?
12	MS. DIEL: Objection. Irrelevant.
13	THE WITNESS: Looked into it?
14	BY MS. Miloso:
1.5	Q Yes, looked into it.
16	A I have not.
17	Q - bid you did you purchase this dryer yourself
18	or maybe a spouse?
19	A It's I probably purchased it.
20	Q Do you remember purchasing it?
21	A I don't.
22	Q Go you remember reading any instructions that
23	came with it?
24	A I have read them.
25	Q You've read them. When did you read them?
	Page \$3

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THE WITNESS: I don't recall whether there was
     information like that in there.
     BY MS. MILUSO:
          Q Okay. Would -- if -- and i'm giving you a
 4
     hypothetical, if it said in your dryer instructions that
     every 18 menths you have to have a professional come out
     and clean the inside of the dryer in places where you
     can't see, would you have had that performed,
 8
9
               MS. DIEL: Objection. Intolevant and
10
     incomplete hypothetical.
11
     BY MS. MILUSO:
1.2
          O You can answer. If everything had been working
13
     property on your dryer, which I believe it has for you.
14
13
          A it has, and I have not had such maintenance
1.6
               Would you have -- so you personally don't --
     you haven't done any normal, regular maintenance every 18
19
     months or you don't do any regular maintenance on your
19
     dryer: is that correct?
20
               MS. DIEL: Objection. Trrelevant.
21
               THE WITNESS: In terms of having a qualified
22
      service technician come out, I don't recall having done
23
     that with this dever.
      BY MS. MILOSO:
25
                                                      Page 55
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Samolf, A VERHENT COMPANY
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It's going to be back around the time that I
    purchased it.
            Have you read them since them or have you
    pulled it out for any ressen since you purchased it?
         A I don't believe so.
         Q Okay. And was there any -- to your
     recollection, were there any instructions regarding
     maintenance that you recall reading in your
     instructions?
10
         A
             be you recall reading that you should clean the
         Q
11
    lint filter?
1.2
             Oh, yes, that's -- that's certainly there,
13
         A
     ves.
14
15
         o And is it your --
         16
     were talking about maintenance, I thought you were
17
     talking about with respect to some periodic
         Q well, you don't remember -- I just want to make
     sure I understand your testimony. In terms of periodic
21
     maintenance, you don't remember seeing any -- when you
22
     read it, you don't remember what you read if there was
23
     anything regarding periodic maintenance?
24
              ws nich: Objection, irrelevant.
25
                                                 Page 54
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Saraoff, A VERITEXT COMPANY

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Do you perform any maintenance on your dryer
         Q
     at all?
               MS. UIEL: Objection. Irrelevant.
     BY MS. MILUSO:
          Q And if you do, what do you do?
          A well, I certainly clean the lint from the list
     basket that's within the dryer, periodically vacuum in
     back and around the drver.
 R
          Q And when you vacuum in back and around, do you
     pull it away from the wall or disconnect it from any
10
11
     exhaust venting?
          A I do not disconnect and I do not unplug.
12
              Okay. And I'm assuming also that you don't
13
     take off, like, the outside of the dryor and clean
14
     inside, you don't take the metal off and clean inside?
15
               MS. DIEL: Objection. Irrelevant.
16
               THE WITNESS: I do not try and dismantle the
17
18
     drver.
14
     BY MG. MILUSO:
          Q Ckay. If cleaning of a consumer dryer required
26
     a dismantling, would that be a reasonable expectation on
21
22
     consumers to clean it that way, based on your experience
2.3
               MS. DIEL: Objection. Vague and ambiguous,
     overbroad, incomplete hypotherical, calls for
                                                     Page 56
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Samoif, A VERITEXT COMPANY 877-955-3855

apeculation. 2 THE WITNESS: I think is will depend on how comfortable someone is at doing that, but what this information says is that that kind of operation should be done by a muslified sarvice person. RY MS. MILESO: Q And would it -- but it doesn't say that that's provided with this dryer, that they will send somebody out for you, does it? MS. DIEL: Objection, Misstates the 3.0 13 ensidence. THE WITKESS: If we're talking about the dryet 12 in this case, my understanding is that the homeowners had 12 corchased a three-year agreement with Scars that allowed 3.4 there to have or that point, once they paid that money, 15 an annual review and inspection and maintenance of the 16 dryer and someone would come out and perform that, they 17 purchased that. BY MS. MILUSO: 26 O Do you know what -- and what's the basis for 21 your information that they purchased that product? My understanding -- actually, I'm not sure this 22 is it -- oh, yes -- is the -- there's an agreement 53 reference specifically that has -- this has 2.6 Mrs. Adamian's name on it for \$69.99 and I believe they

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EHP LARSON 073778

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described in the -- as a master protection agreement
          Q And this would have been purchased at the time
     she purchased the dryer; is that correct?
          3%
              Th ic
               It's maybe what we would know as an extended
      warranty; would that be fair or a protection plan?
              I don't know what it's been called within the
     litigation. Here, it's referenced as a master protection
     agreement that among the other things that's included is
10
      wn annual preventative maintenance check at your request
1.1
12
     and no extra charge.
          Q Okay. Do you know if the Haroutounyans ever
13
     used their protection plan or master protection
14
          A From their testimony, my understanding is that
17
      they did not.
          Q And didn't they also testify that they never --
3.8
      that they didn't have any problems with the dryer?
3.9
          A Yes, that's my understanding.
28
               Okav.
21
22
               Prior to the fire.
               So as an expert, wouldn't it be reasonable to
23
      assume that a consumer who has no problems with their
24
      dryer would not necessarily call out someone to service
                                                      Page 58
                       Sarnoff, A VERITEXT COMPANY
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included a -- this specific kind of agreement that's also

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EMP LARSON 073779

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their dryer?
               MS. DIEL: Objection. Vague, ambiguous,
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     overbroad, incomplete hypothetical.
     BY MS. MILUSO:
          Q I'm asking you as an expert if it's -- if a
     consumer -- I'm sorry, you can actually repeat the
 6
 7
     question.
               (Record read.)
8
               THE WITNESS: I think in -- particularly in
9
     this instance where we have people who have already paid
10
     for that kind of service, that it's unusual for them not
11
     to take advantage of it.
13
     BY MS. MILUSO:
          Q Have you ever purchased, personally, an
3.6
1.5
16
              And have you -- have any of your extended
27
     warranties included regular maintenance?
18
          A Yes.
19
              Can you describe which products you bought
20
21
     these extended warranties on.
          A They were actually for a washer and dryer
22
     through Sears.
2.3
24
               Was it similar to the protection agreement that
     you purchased, similar to the one that you're reading
25
                                                     Page 59
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Samoff, A VERITEXT COMPANY

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here in the master protection agreement in this case?
     This is a Konmore Sears dryer.
               MS. DIEL: Objection, frrelevant.
               THE WITEESS: I don't recall all the different
     aspects of it, but it certainly included a -- an acqual
5
     inspection, that scheene would come out and -- and I just
     don't recall how many years it covered.
     BY MS. MILUSO:
          Q Da you remember over baving someone -- calling
     sommeone out, in your own experience, to come out and do
11
     that annual service?
12
          A
               pid you initiate that on your own or did Sears
13
14
     call you?
               I don't recall.
1.5
               Let me -- well, other than the installation
16
          0
     instructions, the user guide, the on-product labels and
17
     the operating instructions that we've reviewed, do you
18
     have any knowledge of any other warnings that came
     associated with this product?
           A I Chink in terms of what we've discussed
21
     already, including the installation instructions that we
22
     didn's mark, but that's my understanding of the
23
     information that would either be on or accompanying the
24
     dryer that would have contained information with respect
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Samoff, A VERITEXT COMPANY

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to dryer fire risk.

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Q Okay. Is there anywhere in these instructions that says that lint may accumulate in a place that you cannot see? Is there anything? I want to know if you think that that warning is included in any of these installation instructions, user guide or operating instructions or labels.

Ms. DIEL: I'll object on the grounds that it's vague, ambiguous and overbroad.

THE WITNESS: I think I read into the record have descriptions of lint in the exhaust vents, and I believe in these documents somewhere there is a discussion about potentially in the chasse, and that kind of language is here.

BY MS. MILUSO:

Q Okay. Well, I'm going to horrow this for a second, this user guide, Exhibit H. The specific relevant instructions, middle of the page on page 3, "Clean the lint screen before or after each load. The interior of the dryer, lint screen, housing and exhaust duct should be cleaned approximately every 18 months by a qualitied service personnel. An excessive amount of lint build-up in these areas could results in inefficient drying and possible fire." There would be -- do you think that this warning -- if -- making the assumption

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EMP LARSON 073782

Q Shy not? I mean, why isn't it going to press the likelihood that it gets done?

I -- I know that Dr. Doris has picked out the coar of compliance as an issue, and given that this family already purchased an agreement and certainly the financial cost is already sunk, so they're not getting anything for that money that they spent. It's true, you would have to stay home and wait for a service provider to come nut and that is true for so many aspects of keeping a house maintained, whether it's -- I have in my briefing binder here examples of -- those kinds of recommendations are made for your furnace and your water heater to have somebody come out and do maintenance on those. I think that -- though, that it's really more Sively related to the fact that after 18 months, typically, there is no fire, and so it's -- I think that the -- that it's the understanding that the risk and the likalihood is low, that is partially related to people not responding in this case to this kind of information.

O when you say that the risk is low, what's your basis for that, that the risk is low? I mean, obviously they had a fire in their house, so there was an actual real risk that was actuated, I mean, it happened, so the risk in this case was high.

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Samoff, A VERITEXT COMPANY 877-955-3855 that you are at risk of fire if you don't have it cleaned every 18 months, the incide of the dryer, do you think it's a reasonable expectation on consumers to have to perform this regular service, based on your experience as an expert?

A Well, I think there's a difference between providing the information as this manufacturer has done and then what it is someone will do about it, and the

providing the information as this menufacturer has done and then what it is someone will do about it, and the information is here, it's present, it's in this use and care manual -- use and care guide, it's presented in two different places about the need to have it serviced. There's information that's presented with respect to the extended maintenance information --

Q Page 2?

A that is called the master protection agreement that someone will come out annually in that case to examine the dryer, so the information is there. The issue about whether someone will act upon it, how effective it can be is separate from that and the idea that having the 18 months service information be on the dryer itself and that that would make a change somehow in these people's behavior or that -- that is not going to increase the likelihood that this kind of action gets done. It's not an issue of the location of the information.

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Samoff, A VERITEXT COMPANY 877-055-3855

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EHP LARSON 073783

A No. Wo, the risk stays the same. The population risk stays the same.

Q Gkay

A It did happen to this family, in this family's home, but the population risk is the same.

Q At what point -- well, I want to make sure I understand what you're talking about. The risk -- what is your basis that the risk is low? Is it because they didn't have a fixe in the first 18 months?

A Bo, i'm not talking about this family's risk.

I'm talking about the population, and there are dryers in a huge proportion of households in the united States.

There are obtinates that maybe 400 leads a year are being done on average for a dryer -- on the average dryer, so that's a lot of dryers and a lot of use, and the -- and that normally you can go a lifetime without ever experiencing a dryer fire. So the -- so that kind of experience, that lifetime of experience that people have with dryers, I think is partly what makes people less apt to oct upon the information.

Q And I understand that. If -- if you know that your Amana dryer in your home would -- could potentially start a fire in your home if you did not have a professional person come out to clean it, to take off the housing, something that you can't do, it has to be an

Fage 61

Samott, A VERITEXT COMPANY 877-953-3855 authorized service person, would you do that -- would you call someone out every 18 months? MS. DIEL: Objection. Vague, ambiguous, incomplete hypothetical. She already indicated someone THE WITNESS: It's not that a fire will happen, it's a fire -- there's a chance of a fire. By failing to do this action, you are increasing the likelihood of a fire occurring compared to having it serviced but it's not something that's going to happen 150 percent of the BY MS. MILUSO: Well, I mean, most things agen't going to 0 happen 100 percent of the time; right? Right, so the likelihood is low Okay. And -- but when the likelihood -doesn't it matter what the risk is, if it's death or injury, isn't it more important than if the risk is failure -- you know, a failure in the product and its service and how it performs?

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MS. DIEL: Objection. Vague, ambiguous,

THE WITNESS: In terms of what? What are you

overbroad, incomplete hypothetical.

relating it to?

BY MS. MILUSO:

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EHP LARSON 073785

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MS. DIEL: Objection. Vague, ambiguous, overbroad, incomplete hypothetical.

THE WITHERS: Reading this information under important safety information, under a warning that says "To reduce the risk of fire, electrical shock, injury to persons when using this dryer comply with basic watelings listed below. Pailure to comply with these warnings could result in serious personal injuries," and then the heading "Prevent Fire," new that's the context of the information that you just read into the record is addition to it being fronted by the signal word "warning." So it is being placed in the context of safety and this is a safety related behavior, so the presentation of this information is characterizing it as definitely related to reducing the risk of fire.

g But you're not concerned at all, you don't think there's any distraction, in your opinion, in the fact that the same warping includes the result of not performing those functions as an inefficient drying? That doesn't bother you at all that it also says "inefficient drying"?

MS. DIEL: Objection. Vague, ambiguous,

THE WITNESS: Well, it includes both,

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Semost, A VERIVEXT COMPANY 877-955-3855

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Sorry, I'm sure it was vaque. It is more --
     would you agree with the statement that it's more
2
     important to have a warning on something that is -- has a
     risk to injury or death like a fire versus a warning, you
     know, to make sure it's maintained properly so it
     performs properly; cornect?
               Ms. DIEL: Objection. Vague, ambiguous,
7
     overbroad.
               THE WITNESS: The information about maintenance
     in the set of information that we've been talking about
10
     is in terms of risk, is in terms of fire and to reduce
11
     your chance of fire, have a service technician come out
12
     and perform what's -- an annual inspection on this
13
     suggested time frame, so that's there.
14
1.5
          Q But it -- and I think this warning says, *Clean
16
     the lint screen before or after each load, the interior
17
     of the dryer, list screen, housing and exhaust duct
18
     should be disased approximately every 18 months by
13
     qualified service personal. An excessive amount of lint
20
     buildup in these areas could result in irefficient drying
21
      and possible fire." So would it be reasonable for a
22
      consumer whose dryer is performing efficiently to assume
23
     that they don't have a risk of fire because it's
24
      performing efficiently?
                                                      Page 66
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inefficient drying and possible fire.
     BY MS. MILOSO:
          Q And so based on this user care guide and the
3
     warnings that are included in here, you believe that's
     adequate warning for the risk associated with this
E
     drver?
               MS. DIEL: I'll object on the grounds that it's
     vague and ambiguous as to whether you've miso included
     all the other warnings.
     BY MS. MILUSO:
10
              ['3] include all the other warnings.
1.1
               I believe, as I stated in my opinion, that the
12
     information that's provided here is reasonable and
1.3
     adequate and specifically includes information about the
ìà
     need to do the 18 months service by a qualified service
3.5
      personnel.
16
              Do you think that most consumers who receive,
17
      based on your experience as an expert in the area of
      warnings and human factors and human behavior, do you
      think that post individuals, most consumers who purchase
      this dryer had an authorized service person come every 18
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      months?
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               I dog't know.
23
           n you think it's a reasonable expectation on
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      consumers, I'm not talking about the Haroutounyans, do
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Samoif, A VERIFEXT COMPANY 877-955-3855

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you think it's a reasonable expectation on consomers to have someone come and clean parts of the dryer that you cannot see every 18 months? Do you think that's a reasonable expectation?

- A I think it's reasonable for someone who reads
 this information to understand that if they don't do
 that, it increases their risk of fire, that that
 information is conveyed and it's conveyed in a clear
 manner, in words that people can understand and then it's
 up to the consumer to decide whether they're going to act
 upon that or not.
- Q You've mentioned cost and the cost to the consumer, do you think that's a reasonable cost for a consumer to undergo, not only the cost of buying the \$99 protection plan, but after the three years there is no protection plan. Do you think it's a reasonable expectation a reasonable cost on consumers to have to pay that money to have it be serviced?
- A Well, you do have to pay a service provider to come out and inspect your dryer and that's true if I want to have my furnace done or my -- or if I had an alm-conditioner, to have so air-conditioner checked, to take my car in to be serviced, those things do have some monetary douts to them, but that is -- the person who is performing that service is a professional and that's

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Samoff, A VERITEXT COMPANY 877-955-3855

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EHP LARSON 073790

Q Okay. Well, let's talk about a dryer then. Is a dryer in someone's home, is it reasonable that a consumer would get something -- get a dryer serviced that was working fine?

A I think that it's reasonable for a consumer who reads the information that's provided here by Electrolux to understand that if they don't have this requier kind of service done, that that increases their risk of a lire. And then it's up to them to make a decision about whether -- given all the other risks that people face in day-to-day activities whether they're going to act upon that information.

 $Q_{\rm c}$ Isn't that something that the consumer should know before they buy it, what they're expected to do?

A Well, I saw some of that kind of testimony is Dr. Doris's deposition. The -- I would think that at least to the extent that this family decided to purchase a master protection agreement that potentially there was some understanding of the issue about scheduling maintenance and the possibility of a potential issue with the dryer, so that there wasn't some -- there was some reason that they decided to make this additional \$90 purchase in addition to what they had already paid for the dryer. The -- apart from that, you have an appliance whose basic role is to produce heat and the transfer of

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their job to do that kind of work.

Q But isn't it true that people are -- normal basic -- normal behavior is that, you know, if something is -- you know, if it's not broken then why fix it?

Would you agree with -- that most consumers function that, you know, the products in their home, if it's working efficiently then I'm not going to fix it?

MS. BIEL: Objection. Incomplete hypothetical.

THE WITHERS: I think it would be influenced by a lot of different factors.

BY MS. MYLDSO:

- Q Okey. Well, let's talk shout that. Are there other -- what products do you think consumers are more likely to get serviced when they're working totally fine, which products in your mind and in your experience as a human factors expert, are people likely to get regular service on when it's working properly?
- 19 A I don't know. I haven't done that kind of 28 analysis.
 - Q Is it -- so you can't testify whether you think it's reasonable that -- for a consumer who buys a dryer to have to perform annual service even if it's working fine?
 - A No, I haven't said that.

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Sarboff, A VERITEXT COMPANY 877,955,3855

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EHP LARSON 073791

heat and maybe they don't understand about the -- that
the water turns to vapor and all those kinds of things.
If they read some of this information, they will
understand, but they'll know that this is a
heat-producing appliance that bransfers heat from
whatever it is that the appliance is deing itself to the
clothing or whatever items are in the dryer. And just
that kind of a process is a potential fire risk and not
specific to any particular manafacturer.

- ϱ . Well, there are a lot of fire risks in our homes; right?
- A There is and people will understand in general that a range in the kitchen poses a potential fire risk.
- Q And people would ~ and a toaster, for instance, would also pose a fire hazard?
- A A toaster, yes.
- Q If a consumer had to take spart their toaster to clear it, take it off, one a screwdriver to take it off, would that be a reasonable expectation on a consumer?

MS. DIEL: Vague, ambiguous, overbroad, incomplete hypothetical.

THE WITHERS: I have not looked at toasters and what's expected of consumers for toasters.

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BY MS. MILUSO: Q Bave you looked at any other household 2 appliance in your experience as a human factors expert regarding maintenance? Have you looked as any other household appliances? A In what respect? Q In terms of the risk of fire associated, how consumers act and in terms of maintenance, any of those ø 9 we pret: Objection. Vague and ambiguous. 10 war wirmess: That's a very broad question. 11 MS. DIEL: Overbroad. 12 13 BY MS. MILUSO: Q Woll, you're an expert; right? 14 I have expertise in the area of warnings and 15 risk communication. 16 And I guess in your history of your years that 17 you've been in this business and -- what experience do 1.8 you have with household products in all these years? 19 Other than what you use personally, I'm talking about as 20 21 an expert.

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products of various kinds.

A I have done a lot of work related to household

Q Can you just tell me about some of the work

that you've done that would be relevant to household

CONFIDENTIAL " SUBJECT TO PROTECTIVE ORDER

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WHP LARSON 073794

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single product. I provided these as examples of other kinds of products that people do have in their homes where these manufacturers have suggested periodic waintepance be done. Q Gray. So let's talk about what you brought with you regarding that. You said you brought gas furnaces. So what are the expectations of consumers as it relates to the maintenance in the gas furnace material A Well, there's two issues. One is with respect to the fact that gas furnaces come with manuals, but the orbay one to that at least within -- this is an example, within the menual there's information about the need to do some regular service of it. And can you tell me what you --- ler's mark Q that ---Okay. -- as -- whore are wal Let's go --MS. DIEL: Let's go off the record. BY MS. MILUSO: We realized that we hadn't actually marked the 0 document that you talked about that was a receipt of their -- the Harostounyans purchase of the master protection agreement, so we're going to have that marked

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products that pose a fire risk? A Well, I've got examples in here of manuals that -- one is -- accompanies a furnace, the other accompanies a -- I believe it's -- all of s sudden I can't remember. Let me look. Oh, water heater, and there's also ah example of a car manual in here. 8 Why do you think the car manual is relevant? 0 well, I think the -- I think what it does is 10 assist with consumers' expectations, that lots of

7 E products come with manuals, that manuals tend to have 12 more information than what is on a product itself and 13 that -- so that people will know that often when they get -- you can talk about appliances but motor vehicles, 15 all kinds of consumer products, that there will be 16 potentially labeling on the product, and if not, or in 17 addition to, there will often be a manual. 18 Q And when it -- can you tell me other examples 19

of when -- some product that a consumer buys that is 20 expected to do regular maintenance say every -- like on 21 an 18-month basis or any other basis -- one-year, 22 two-year basis, can you tell me any other examples of 23 those? I just want no know about your research. 24

well, I didn't attempt to try and look at every

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EMP LARSON 073795

as Exhibit I and we have had that copied but we hadn't marked it yet so that's going to be I. And we don't have

A And that ween't the "I" that we rotated and it looked like an H?

Q I wrote it but we hadn't marked it yet.

So there's a few things out, so we'll get back to the other things that you relied on when we get them

(Exhibit I was marked for identification by the court reporter and is attached beneto.) BY ME. MILUSO:

So let's just get back to your report for a second. Do you have any opinions about whether consumers are more or less likely to refer to something else when they're told to go somewhere else? For instance, in this case, the on-product labels say "Please read the user guide," do you have any opinion as to whether that consumer is more likely or less likely to go read something somewhere clse when they're told to go to another label or warning?

A It will very much depend on the consumer's -it's consumer driven and if they are seeking information,

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then they know that that source exists and that it's something that they can refer to and then also it is a way of indicating that -- for example, that an on-product Table) that thee refers to a marmal, separate manual, that this is not all the information. This is a subset -typically a subset of the information.

- Q Does -- so your answer is that it would depend n the diligence of the consumer; is that correct?
- A It is, it's whether the consumer is seeking information, if they're looking for information.
- When -- in the case of dryer maintenance and service, when would a consumer, you know, he seeking that information?

MS. BIEL: Objection, Vague and ambiguous. THE WITNESS: Well. I think we've talked about some of the factors that influence that. If a product is not familiar to a consumer, if they -- then they're more apt to seek the information and if the product is seen as potentially hazardous. Let's think of things like chemicals as an example that might be -- give off fumes and he volatile, that might be seen as more hazardous than some other kind of less-familiar product that exists in a home. So that -- those can be some examples of factors that influence whether someone will go and seek information.

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BY MS. MIEUSC:

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And what about when -- you know, I'd like to

get your opinions on, what is a reasonable cost. Because

talked about that a little bit. At what point does the

point -- or maybe it doesn't. Do you think that the cost

kind of a situation and I haven't tried to define it at

that -- wherever that tipping point is, but in this case,

I really don't think that the cost of compliance is a big

issue related to this incident. It's certainly a factor

in trying to keep all kinds of things maintained in our

house, in our home. All different kinds of products

there's some affort, and it can be even having your

carpets cleaned, just it -- unfortunately, it does

require, typically, making a call or sending an e-mail

and having -- if it's something that requires someone to

come out to the house, typically you have to be there and

get them started, so -- but this is just going to be part

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What about -- but like when someone's carpet is

be present when that person does their work at least to

cleaned it's generally because it's dirty; right?

of keeping the house operational.

A It -- there might be somewhere out there that

we know that there is cost of compliance, right, we

cost of compliance became unreasonable? So at what

of compliance ever becomes unreasonable?

EHP LARSON 073799

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- That can be one reason.
- And, you know, when -- let's go back a little hit to automotive because I think that's an interesting issue. Is it your opinion that the regular maintenance that we know to perform on our car, even if it's working normally, is analogous to the regular maintenance that Electrolum expects from its consomers to maintain its

MS. DIEL: Objection. Vague, ambiguous, incomplete hypothetical.

BY MS. MILLUSO:

- I just want to understand why you've brought in that -- why sutomorive service, regular maintenance, is
- Well, the reason that I brought it in was that there seemed to be some question about the annyonyiateness of having maintenance, the regular maintenance information contained in a manual and not be on a product, and it's just not an unusual condition. It is a frequent kind of a decision to have that kind of information contained in a manual that accompanies a product and a car was one example, but what's being copied right now are other examples for other
 - So let me just make some I understand you, so

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patting	certain things in a manual versus is normal
and not	everything has to be on a product; is that wha
you*re :	saying?
A	Often times well, it is a very typical ki
_	arter on them asserted information contained

- a manual, and it eften times is not possible nor would consumers want to have their appliances covered with all of the information that's in the manual, and so there is this trade-off between selecting certain items to be on the product itself and then baving additional information in a manual.
- Well, do you agree with the statement that the best approach is to prioritize hazards in relation to how commonly they are understood, with respect to the first criteria and only largely unknown hazards are the first candidates for possible warnings?

MS. DIEL: Objection. Vague, ambiguous, incomplete bypothetical.

THE WITNESS: I think that there are various approaches to making those kinds of decisions and certainly that would be one possible thing to consider. BY MG. MILUSO:

Q Based on your experience as an expert, do you think that the average dryer consumer, the average homeowner, knows that outside of just their west itself

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that there are other risks inside that they can't see? Do you think the average consumer knows that? MS. DIEL: Objection. Vague, ambiguous, calls for speculation, incomplete hypothetical. THE WITNESS: If they read the information that's provided by Electrolux, as an example, they will have come understanding of that. RY MS. MILUSÓ: Q focs it say in any of the labels that we talked about or any of the user quide or installation instructions that the consumer may not be able to see all of the places where lint can accumulate? Does it say that? It references, for example, the exhaust system A or the exhaust ducts, those are places consumers can't sae, so it certainly talks about that. Q Does it explicitly say that, you know, lint can build up in the -- you know, behind your dryer drum where you can't see it, it doesn't say that, does it? I don't recall those specific words.

Is it your opinion that the expectation on the consumer of this product, to have it serviced every 18 months by a professional servicer, is it your opinion that that's a reasonable expectation, based on your experience as an expert?

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In terms of --MS. DIEL: I'll just impose an objection on the 2 grounds that it's vague, ambiguous and an incomplete 4 THE WITNESS: And I'm not sure I understand the 4 á opestion. BY MS. MILUSO: o okay. I want to know if it's your opinion based on your experience and your research that an average consumer can be expected to have an authorized servicer come every 18 months without any reminder or warning, is that a reasonable expectation on a 12 1.3 consumer? MS. DIEL: Same objections. 14 THE WITHESS: Well, there are any number of 1.5 ways that a consumer who is interested in keeping that 16 kind of a schedule can track it. So I don't -- I don't 3.7 think that that kind of information about here's, you 18 know, three ways to think about doing needs to be 1.3 included in the manual. 20 BY ME. MILUSO: 21 Q Oksy. Well, when we -- do you know whether 22 Sears, who sold the dryer and provided the service or 2.3 lack thereof under the master service agreement, whether 24 they ever called or reminded the Adamians to have their 25

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EMP LARSON 073803

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dryer service performed? I don't know. 9 So you know whether it was Sears's standard 12 0 prectice to do so? I don't know. Would you agree that not all hazards -- 1'm scrry, not -- the right terminology is escaping me -just because a product contains a warning, that it may 8 not be followed; is that correct? yes, that's true. 10 And the purpose -- I'm reading from your report 1.3 on page 7, "The purpose of a warming is to inform a user 12 of possible negative consequences as a result of taking 13 or failing to take some action, " would you agree with that? 15 16 And then you say, "However, research into the 1.7 effect that wernings and safety information have on human 18 behavior has shown warnings cannot motivate or force 1.9 compliance"? 20 21 A And are there -- so what happens -- I mean, ð 22 what should a manufacturer do if they can't rely on 23 consumers to follow the warnings? Well, what should a 24 manufacturer do?

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 A The what a menufacturer can do is terms of
warnings is to provide information in a way that can
communicate, can be understood by consumers and that is
in locations that are reasonable for being able to
communicate with consumers and that really is the extent
of what a manufacturer can do in terms of providing
warnings. It then you know, whether someone will seek
that information and read it and act upon it is related
to a lot of other factors, some of which we've already
spoken about, and that is beyond the control of the
manufacturer. So the adequacy of the information and the
presentation of it can't get coupled with effectiveness
because those really are two different aspects.
Q Well, there's a third option; right? I mean,
the appulantation can decide a product or incorporate

- designs that are -- that are safer, that prevent some of these failures; correct?
- A And I'm addressing it from warnings, what can scamebody -- a manufacturer do with respect to warnings.
- Q When would you find -- in what circumstance have you ever found that a warning was inaccurate? Let me strike that and rephrase.

Have you ever found that a warning that you have reviewed has been inadequate?

MS. DIEL: Objection. Vaque, ambiguous,

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THE WITNESS: I have testified in a case with 2 respect to a fireworks warning. RY MS. MILDSO: Q And why did you find that the warning was 5 inadequate in that case? A Well, there were warnings on the fireworks. This particular type of firework had a -- a consistent pattern of performance related to injury that was not included among the warnings. 10 Q Do you do -- can you quantify how much work you 11 ds for defense versus how much work you do for 12 plaintiffs? 1.3 A The ... I would estimate about 65 percent of the 14 work that I do is litigation-related, and of that work, over 90 percent is on behalf of the defense. Q And when you do that litigation work for the 17 defense, have you ever determined in your process of 18 reviewing the materials provided to you that warnings 19 were inadequate? 20 MS. DIEL: Objection. Vague, ambiguous, 21 overbroad. 22 THE WITKESS: Well, if -- cartainly if I'm 2.3 asked to do that and that is what I determine them 1 24 don't proceed with that work very fer, that's sort of the Page 85

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Counsel.

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agreements. I think on your index you had it listed as a 2011 agreement; would that be accurate?

A Tes.

Q Why is this relevant to your findings in this case?

A Well, this is a document that was sent to me by

Q Do you know why it was sent to you? A I -- I think it was to illustrate the kinds of things that can be covered in a Sears protection agreement, but I -- but Ir is for my -- my understanding is that this is for 2011 and I thought that the description in the manual that came with the appliance in this case, with the dryer in this case, was probably a

this case, with the dryer in this case, was probably a better description of what some of that would cover -- what specifically things would be covered.

O Did your client provide you with like the

o pus your stream provide you was: fixed the sectual protection agreement or any other material that come with their \$90 purchase or \$89.99 purchase of the agreement?

A No.

Q So you don't know what -- other than what's in the user and care guide, you don't know what else the consumer received; is that correct?

A In this case?

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and of the review.
    BY MS. MILUSO:
              That makes sense.
              Tin-bub.
              Wall, you talked about the Slabach and the
    Powers case that you had been retained by counsel and
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     also another case that never made it to fruition that
     maybe Electrolux had pulled you in on, what were your
     findings in those other cases? Bid you determine that
ģ
     the warmings were adequate?
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          A Yes, I did.
             And you didn't -- I don't have it here anymore
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     but your report in the Slabach decision, if you recall
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     it, maybe we can look at it when it comes back, but was
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     it relatively similar to your opinion in this case?
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               Why is that? Why are they similar?
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              Well, it's the -- it's very much a similar set
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     of safety information and warnings that were present on
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          Q Okay. I don't want to get too far ahead of
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      ourselves because I want to see the ANSI, A-N-S-I, all
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     caps, standard that you brought in and I want to talk
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      about that before we go home, but let's talk about this
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      other document you brought in, the Sears protection
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                                                     Page 86
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Yes, in this case.
               What this particular family received?
               T don'r.
               Okay. So it's possible that they didn't
     raceive any document outside of just their use and care
     quide; is that correct?
               MS. DIEL: Objection. Cails for speculation.
               THE WITHESS: I don't know one way or the
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     BY MS. MILUSC:
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              Ckay. Other than the cases that we've talked
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     about today, have you ever done any other work for
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     Electrolex or any other counsel that represented
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     glostrolax for any other product?
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              Can you chenk that into a smaller question?
              Yes. Electrolux manufactures several different
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     products: they manufacturer refrigerators, other home
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     appliances, have you ever been an expert or consultant
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     for Electrolum in any other product?
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21
               Okay. What other products?
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23
               A range.
               Like a stove range, that type of thing?
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               Yes, kitchen range.
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                                                      Page 28
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Okay. And was it, again, that you were retained as an warnings expert?

And what were your findings in that case, if uon can secall, desorally?

a as I recall, it related to tiprover risk and I don't recall all the specific findings but there were warnings on the product and warnings accompanying the product with respect to that risk.

Q You've read Dr. Doris's report; is that correct?

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And what was your -- do you have any problems with his report? Do you agree -- or do you disagree with anything in his report?

I believe I pointed out some of the areas that he and I disagree about.

And what were those areas?

The bottom of page 6 and going on to page 7.

So on the bottom of page 6 it says "Or." --"Well, Dr. Boris acknowledges that noncompliance with warnings does not necessarily make a warning inadequate. He opines that the warnings provided by Electrolux are inadequate because they require excessive or disproportionate measures for compliance. He does not

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Fage 90

time, every six months throughout the duration of your dryer, do you think that would be an -- that would be a cost of compliance that was too high?

MS. DIEL: Chiection. Vague, ambiguous, incomplete hypothetical.

THE WITNESS: Yeah, I have not looked at the again, measuring where things become excessive or a disproportionate measure for compliance. In this case what we have is a recommendation of 18 months that comes from Electrolux. The family in this case paid for an appropriate that covered, in that agreement, they could have as many as three visits to look at the appliance, so that -- that particular cost, the actual monetary cost. has already been sunk basically.

RY MS. MILUSO: But it's only been sunk for the first three Q

years; right?

And then there's additional costs after those three years?

There would be.

Do you disagree with Dr. Doris's statement that O appliances are typically serviced on an as-needed

Yeah, I didn't -- I didn't see that he had a

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examples of -- that were in my binder that I brought here of other appliances that suggest to consumers -- that recommend to consumers that they have those appliances serviced on a regular basis. Q po you know whether it was Sears's practice to provide any warnings verbally at the time of purchase regarding the maintenance requirements of this dryer? I don't know what Sears's practices were. I think we touched this a little bit but I want to go back to it. You read Dr. Boris's transcript from his deposition? And during that deposition transcript he mentioned that it would have been -- that these warnings were inadequate was obviously his findings, but that because certain consumers are more diligent and other consumers are not, that the choice to buy this dryer -in order to make that choice the consumer should have known about the maintenance requirements, particularly something as -- particularly the 18-month cleaning requirement to avoid fires. Do you disagree with that eminion?

propose alternative warnings that would overcome his

require excessive or disproportionate measures for

compliance?

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concerns and would have prevented or radeced likelihood

of this event." So is it your opinion that the warnings provided by Wiertrolux are adequate and they do not

I say in my overall opinion, that the warnings provided

Dr. Doris in -- in the concept that even if actions are

required that -+ that require some cost associated with

compoliance, that just may be the cost in order to reduce

the risk and so there are -- beople have to wear OSHA

supplied or OSHA-rated respirators to work in confined

spaces and it may be uncomfortable, it may be not and

that may impose some cost on the person, but nonetheless

in those kinds of circumstances that would be the steps

that somebody would need to take to reduce their risk.

So it's true that some -- some actions that are asked of

consumers for them to take to reduce the risk will pose

some cost of compliance, some effort and sometimes some

had to have an authorized service person out to your home

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basis for that statement and I provided the other

every six months and it was going to cost you \$50 every

Ryportherically, if Electrolax required that you

money to achieve that compliance.

by Electrolux are adequate, but I also -- 1 disagree with

Well, I think -- well, first, I do believe, as

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assumption that other brands and other manufacturers

Well, it seems to me that under that there's an

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EHP LARSON 073813

wen't have --THE REPORTER: I'm sorry, my computer lust shor 7 off. 4 (Recess.) MS. MILUSO: So when we failed -- let's just have her repeat that one more time. THE WITNESS: She closed the file. BY MS MILESON G Okay. That's okay. We were talking about ą prepurchasing labeling, I believe, if that makes sense. 10 11 Do sous remembers 12 T do remember. Okav. Go ahead. 13 MS. DIEL: And I'll just object that the 10 question was compound and vague, ambiguous. 15 MS. MILUSO: Okay. You can answer, if you 1.6 17 remember. ter attwess: Well, I remember what I was going 18 19 MS. MTLUSO: Ckay, perfect, why don't you say 20 21 22 map wirmspass. It shows to me that there was an assumption in that belief that if consumers understood the maintenance issues with Electrolux dryers, that then they would make some other decision about purchase, and Page 93

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FUR LARSON 073814

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THE WITNESS: In some broad way, that's
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     probably true.
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              And also that -- would you agree with the
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     statement that some information made to consumers, if
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     presented at the point of purchase -- example -- a
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     warning about the potential chaking hazard of small parts
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     could potentially steer parents away from buying a toy
     that might prove dangerous for small children?
               MS. DISE: Objection. Vague, ambiguous,
     overbroad, incomplete hypothetical.
               THE WITNESS: If -- for parents that might read
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     that warning and have a child that might be at rick some
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     of them might make other decisions.
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     AV MS. MILUSO:
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          O And in the same way, a consumer who buys a
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     product, let's say, a household product like a toaster
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     oven, they buy a toester oven, and on -- at the point of
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      sale they see that, you know, this teaster oven requires
     you to clear something every two days, whereas apother
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      one says to clean it after every use, I mean, wouldn't a
      consumer be able to use that information to decide
22
      whether it wants to purchase one teaster over another
23
      roseter?
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               MS. DIEL: Objection. Compound, incomplete
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there will be -- for dryer manufacturers who follow the
     AMSI standards for gas dryers, there is guidance that in
     their manuals they should provide recommendations for
     periodic maintenance. Electrolux is doing that. For
     other manufacturors that -- and I don't know what their
     recommendations for periodic maintenasce might be, but if
     they are following the ANSI standard for their product,
     they would have guidance also. So it's not -- I don't
8
     believe it's going to really be a matter of by purchasing
     some other manufacturer's appliance or dryer that you're
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     going to somehow be able to avoid having to do any
3.7
     maintenance on the appliance.
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     BY MS. MILUSC:
          Q And -- okay, but if -- would you agree with the
     statement that some hazards cannot be avoided or
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     mitigated through any action except by avoiding the
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     oreduct or situation?
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               MS. DIEL: Objection. Vague, ambiguous,
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     overbroad, incomplete hypothetical.
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               THE WITNESS: Can you rand that again.
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21
     BY MS. MILDSO:
          O Yes. Some hazards cannot be avoided or
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     minimated through any action except by avoiding the
23
     product or situation?
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               MS. OTEL: Same objections.
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EHP LARSON 073815

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hypothetical.
               THE WITNESS: Well, potentially there's all
     kinds of information that could be available to consumers
     on which to make a decision, and I think we have a --
     cost can be a consideration, and I believe that the
     people in this case mentioned something about cost as one
     of the things -- the amount of money that they would have
     to pay for the dryer, so there can be a whole variety of
     factors that influence a parchase decision. I would
     expect that maintenance -- getting back to dryers -- that
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     the maintenance of dryers and the period -- recommended
     period for maintenance is not going to be some major
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     influence on whether a particular consumer chooses that
13
     dryer over another manufacturer's.
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     BY MS. MILUSO:
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          Q Okay. Now that everything is back here, let's
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     talk about ANSI, and that's A-N-S-I. What is ANST?
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              ANCY is an umbrells standards organization that
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has many different subcroups within it, and the subgroups typically form a task force that develops standards that can be applicable to whole varieties, there's hondreds and hundreds of ANSI standards. In this case what wo have is an ANSI standard that's specific to gas clothes dryers, that's the ANSI 221.5.1. And in order to be published as an ANSI standard, there has to be a certain

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process that's been gone through in developing the standard. They are a consensus standard and if that process is gone through, then it ultimately can be published as an ANSI standard.

- O Okay. You brought this ANSI 221.5.1, dash, 2002, and this is what you believe to be the applicable ener standard at the rime of the distribution of the dryar at issue?
 - A Yes.

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- okav. And --
- or at the time of the manufacturer.
- At the time of manufacturer. So you refer to -- in your report yes say the applicable standard for the incident dryer, AMSI 221.5.1, 2002, recommends that dryer instruction manuals include instructions about the need for periodic examination of exhaust systems.

MS. DIEL: What page are you on? MS. MILUSO: I'm sorry, I'm on page 7 of her report, middle of the way down, the end of the first full

- So why don't we go to the ANSI standard that you brought with you, we're going to mark that as Exhibit J, and let's go to the portions that you cite here.

 - I believe you cite to footnote 32, section

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EHP LARSON 073818

by the user" and then you refer to part C, periodic examination of exhaust systems, this is specific to the user. But in this case, isn't the warning at issue

something that they have to be -- have service performed by an authored servicer?

A Yes, and the information goes to the user to have that done, to act upon that to have the service personnel come out.

- Q Is there anything in this standard that says that you have to tell users to have a person come out to service your dryer?
- A I'm -- I am not aware that that level of detail is in this standard. It allows the manufacturer to determine that,
- A wait if we assume, hypothetically, that the user cannot see or access themselves portions of the dayer that accumulate lint and can lead to lint accumulation and potential fire risk, would then the instructions on -- that we've reviewed today that came with this dryer and were on this dryer, would those meet this standard?

MS. DIEL: Objection. Vague, ambiguous, 2.2 compound and incomplete hypothetical. 23

THE WITNESS: In my view, they do neet the

standard in that we've talked about the specific segments

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1.22.8C. (Exhibit I was maked for identification by the court reporter and is attached hereto.) Okay. So can you read to me what 1.22.8C says. Yes, ic is within -- there's A, B, C, D, E, F, so I think it's better to start up higher. 8 Okay, go ahead, start at the top. Okey. 1.22.8, "Maintenance instructions shall 16 A include instructions for all maintenance intended to be 11 performed by the user, including recommended frequency guidelines. Maintenance instructions shall include but are not limited to" and then it lists cleaning of limit screen, that was A; B, lubrication of moving parts; C. 15 and this is the one that we're talking about, periodic examination of exhaust systems. 17 O Okay. Now, as an expert, do you think that the 1.8 periodic examination of exhaust systems would include 15 looking in places where the consumer can't access? 20 yes, it can. It can include that, 21 Oksy. So in order to meet this standard the 22 exhaust system -- sorry, strike that. 23 It says "Maintenance instructions shall include 24 instructions for all maintenance intended to be performed

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within the macual that direct consumers to -- every 18 months to have the exhaust system and the dryer checked out by a qualified service technician, and that surely would meet the periodic examination of exhaust systems ourdance within the standard. BY MS. MILUSO: Q New, this standard, does it make any recommendations? These are general recommendations; correct? I'm sorry, are those general recommendations? A they -- well, for --11 MS. DIEL: Objection. 12 THE WITNESS: --- gas ---MS. DIEL: Vaque and ambiguous. 13 the WITNESS: They are for ass clothes dryers, 14 so they're specific to gas clothes dryers. 1.5 16 BY MS. MILUSO: But not every gas clothes dryer is the same: 17 Ô 18 MS SIFL: Objection. Vague and ambiguous. 19 BY MS. MILUSO: Q Well, I mean, it's a question. I mean, this is 21 a standard that should apply to all; but not every dryer 22 is the same; correct? 23 MS. DIEL: Objection. Vague and ambiguous. 24 THE WITNESS: Well, with respect to the scope 25

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of this standard, I mean, you have to -- and this is type-one clother dryers, all of the dryers that fall within that particular scope, this standard would be applicable to. BY MS. MILUSO: O Okay. But just because you've met the language in the scandard does not automatically seen that the warmings are adequate; correct? A Oh, I agree that that's not necessarily a determiner, that's not the sole determiner of the 11 adequacy. 12 Okay. What other factors would an expert like you look at to determine the adequacy other than you 13 relied on the ANSI standard, but what else would 14 determine adequacy? 1.5 A Well, I've discussed a lot of them in the 16 17 report, so -- is the information in a manner that people 1.9 can understand it. is it in a -- located in a place where people could reasonably find it. Those were certainly some of the aspects of adequacy that I considered. Q Isn't it true that there are certain products that no warming would be adequate to prevent a danger and require a change in the -- in the product itself? 23 MS. DIEL: Objection. 24 BY MS. MILUSO: 25

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1 saw?

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EHP LARSON 073822

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Would that be true?
               MS. DIEL: Vaque and ambiguous, incomplete
     hymothetical.
               TWE MITTERS: I don't understand the
£,
     question.
     BY MS. MILUSO:
          Q Well, we see consumer products all the time.
     right, that have safequards built it; is that correct?
     Would you agree?
               MS. DIEL: Objection. Vague and ambiguous.
5.0
               THE WITNESS: I'm -- I still --
11
     BY MS MILUSO
12
13
          O For instance, a vacuum cleaner has a fan that
14
     processes and pushes the air out and we have screens over
     those fans to make sure little kids don't stick their
     fingers in the fan and get their fingers caught, we put
17
     safequards onto products. Would you agree with that
     starement that safequards are built into products?
18
               MS. DIEL: Objection. Vacue, ambicuous,
19
     incomplete hypothetical.
2-0
     RY MS. MILLUSO:
2.1
22
          o As a lavnerson, have you come across products
2.5
     that incorporate safequatds, in general?
24
          A I still don't know -- I still --
25
               Okay, fair enough. Have you ever used a table
                                                    Page 102
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EHP LARSON 073823

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3
          Α
               No.
 3
          0
               Rave you ever used a weed whacker?
               I don't recall doing that.
 5
               Have you ever seen one?
               And on the base of a weed whacker there's a
     quard, little strings rip around, and around those
     strings is a quard. Have you ever seen that before?
          ۸
10
              Okay. Let's find another product. Well, just
11
     a normal box fan that you would have sitting on your hot
12
     nario or whataver, or in your house, the fam. It's just
13
     sor blades ripping around, right, normally you would see
34
     some type of protoctive housing around the fan?
15
          A There often times is a cover over the fan that
16
1.7
     has some boles in it.
18
              And so there are -- and that would be a
19
     safeguard that's integrated into the design itself,
     right, the fas cover?
20
              It can be a guard that's present there to
21
     reduce the likelihood of contact between the moving blade
22
23
     and fingers, for example.
          G Skay. Have you ever in your experience come
     across a different product, a different consumer product,
                                                    Page 163
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that had other satemands built into the product itself
     because sometimes the warning was not -- could not be
2
          A Well, the -- I think you're -- your question
     assumes that there is -- when there's a situation where a
     quard is insufficient, that then there might be warnings
     and the warnings are present only when the quard can't
     protect sufficiently, but the -- but the problem with
     that assumption is that many times there are both quards
     and sefety information, guards and warnings, and in other
10
     cases, you have products that have injuries associated
11
     with their use and there are no warnings. The -- tables
1.3
     and chairs have injuries associated with their use and we
1.4
     often don't have warnings all over our tables or on the
     surfaces of our chairs, so that kind of mix of what is
15
     done differs from product to product.
16
          Q Well, what's the -- if you can, provide me the
17
     deneral, you know, at what point does a product deed to
18
     have a label on it to warm someone of a risk? Goviously
19
20
      you just described a chair as one that does not, we know
21
      there are risks, you can fail back, you can hit your
22
      head, things can happen. What would be as example of a
23
     product where the warning has to be on the product to
26
     prevent a risk?
25
               MS. DIEL: Objection. Vaque and ambiquous.
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ws withso: Let's do household products, for instance.

MS. DIEL: Objection, vaque, ambiguous, overbroad, incomplete hypothetical.

THE WITNESS: To the extent that there were requirements by law, those would be things that should be present in terms of warnings. The -- from a human factors perspective, we've talked about all the decisions and things that you might consider about whether to warn or not and we talked about those earlier in the deposition and what things -- what are the -- some of the rules of thumb that you might use to make a decision about warning, and, you know, in this case with clothes dryers, so much of the information that's present here, both on the product and in the manual, is related to fire risk and so there is a significant portion of safety information that's related to different actions that can be taken to reduce the risk of fire. BY MS. MILUSO:

Based on your experience as an expert, can you tell me which of those warnings may have been unnecessary because people, like you said before, know things, consumers just -- they know things based on their experience and time and we con't have to warm away. Are any of the warnings that you saw in the guide anything

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EMP LARSON 073826

(Discussion off the record.)

MS MILESO: I don't mean to interject, I just have to have it on the record, I did not receive enything this morning. We were -- I just received defendants' proposed jury instructions from opposing counsel, and for the record, I did not receive anything this morning. To the extent that this is a duplicate of what my office received on the 5th, I believe your office filed your proposed jury instructions on the 4th and I did receive that filling of your trial, pretrial materials, the jury list -- I'm sorry, the proposed jury instructions, exhibit list, witness list and short statement of the case, I received them on the -- I believe on the 5th vis overnight mail -- no. I'm sorry, I was hand-served them. I think, in the office on Tuesday the 5th. My contention this morning was not that I had not received them, it's that they were due on the 1st is what my understanding of the rules was. So if this differs, I can't compare right now what I did receive and was served by mail, but I can't contend whether this differs from what was already provided to me. If it does, then this would be my first time I received it because the only thing I had was what I received earlier in the week that had a proof of service of June 4th. This has a proof of setvice of June 8th, so I will assume this is new and I haven't seen it

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that was unnecessary to warn about?

MS. DIEL: Objection. Compound, vague and ambiguous.

BY MS. MILUSC:

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Let's look at it, I think that would be fair. This is the user cuide and we'll look at page 3 again. Are any of these warnings for things that, in your experience, are unnecessary?

A Well, I haven't -- I haven't taken and attempted to do an analysis like that. Some of these are laid out in the guide that's provided under the ANSI standard. Some of these, as a indicated in my report, are related to patterns that -- on page 5 of my report. patterns of fire-related events involving dryers and so that information that relates to drying something that might have something -- might have some kind of gasolane or solvent, that's included. Brying a product that has plastic or foam rubber, that's included. The lint screen after each load, we talked about that before. The 18 months is contained in here, we've already talked about that. Using it -- using the equipment without the lint screen if it's block, damaged or missing, that's mentiosed as a fire hazard. So 1 -- and it goes -there's others in addition.

MS. MILUSO: Lot's just take a brief second.

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before.

your -- that your belief that these -- the instructions provided met the AMSI standards and a lot of the other instructions in the use and care guide are probably derived from the requirements at least laid out in the

defendants' proposed jury instructions, okay. Thanks.

MS. MIZUSO: Okay. Thank you. I said it was

We were on page 5 and you were talking about

Amst standard; would you agree with that?

MS. DIRL: Okay.

They certainly are aspects of the ANSI standard that relate to the content of this information of the use and case quide.

Do you think that the -- we talked shout cost of compliance and I don't know what is the appropriate word but maybe you do, we talked earlier about if there's a lot of things and there's a lot of warnings you're less likely to -- consumers may be less likely to follow them. Do you think that, in your opinion, that this -- okay, redefine what I said earlier -- or what you said earlier about the amount of things -- amount of warnings and how that affects a consumer.

Well, the amount of information impacts the amount of eifart that will have to be sport to process all the information, that's -- that's -- and them it puts

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more demands on trying to remember it and retrieve it and all those kinds of things. The issue is that there's a lot of information here and most of it is here for reasons that relate to safety and you're talking about -you're suggesting -- or what's been raised here is that some of this information should be moved over to the dryer itself, but then that increases the amount of information that's on the dryer, and the idea is to strike a balance between information that's on the 9 product itself and then all the information that can be 1.0 pur into a manual. 3.3 Okay. So it's your opinion that it was --12 0 these are adequate warnings to be provided in a menual as 13 opposed to on the product? A In my opinion the decisions that have been made by Electrolux and the location of the information and the content of the information as it relates to fire hazards, these are reasonable decisions and the warnings that are 18 19 Okay. Is the ANSI standard a law? 20 23 A is a manufacturer required to follow the ANSI ō 22 23 arandard? 24 Λ And may the -- may a manufacturer provide more O Page 109

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EMP LARSON 073833

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MS. DIEL: Objection. Vague, ambiguous,
     overbroad.
               THE WITNESS: Yesh, I don't know specifically
     for gas dryers. I den't know.
     BY MS. MILUSC:
              r haven't stlempted to study that.
             Okay. Have you looked at the ANSI standard
s
     after this ABS1 standard, this 2002 version?
          A I may have. I don't recall specifically. I
10
     haven't attempted to identify changes.
ž I
              Ckay. Bid you look at any other dryers or any
12
     other user guides by any other manufacturer in your
13
     research to provide your opinion?
14
              Apart from the ones that we've talked about
15
     with the furnace and the --
16
               Right, but any other -- have you tooked at any
1.7
     other dryer use and care guide for another
3.8
     manufacturer?
1 9
20
          A
              No. 1 bave not.
              Bid you look at the one in your home? The
21
      Amena that you have in your home, did you look at that
22
              I haven't recently looked at it.
24
              tid you conduct any studies or surveys
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warnings than are listed in the ANSI standard?
9
               And when would it be appropriate for -- I'm
3
     sorry, strike that.
á
               When would a manufacturer be -- having met all
ξ,
     the ANSI standards, when would the warnings be inadequate
     on a gas clothes diver?
7
               MS. DIEL: Objection. Vague, ambiguous,
     overbroad, incomplete hypothetical.
              THE WITNESS: The -- if you think of a
10
     situation where maybe a product posed some emerging,
13
     unique risk that might rise to the level of needing
12
     warning that -- that's something that could occur. These
7.2
     standards are updated periodically and in some
۲á
     situations -- I'm not saying it's true with dryers but is
15
     quantial, sometimes new information becomes available and
16
     then changes are made to warnings. It's as evolving
17
19
     BY MS. MILUSO:
           Q And what are the types of things that would
20
      lead to a change in the standards, you know, this was a
21
      2002 -- I know there was a 1999 -- what types of things
22
      would lead to a change in the AMST standard between, say,
23
     2002 and the one that came after that, I don't know what
24
      year that was?
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regarding this case or your work on any of the dayer
     cases in general to base your opinion upon?
              MS. BIEL: Objection. Vague, embiguous,
     ovarhroad.
               THE WITNESS: I haven't -- I have not conducted
     some new data collection in terms of surveying consomers,
     if that's what your question is.
     BY MS. MILOSO:
              Yes. If you were to -- did you feel like a
          o
     survey was unnecessary to derive your opinions?
10
11
              Okay. And why wonidn't a survey on consumer
12
     behavior with regard to ciothes dryers, why wouldn't that
     be a good masis for your opinion?
               MS. DISL: Objection. Misstates her testimony,
      vaque, ambiguous, overbroad.
17
      BY MS. NILUSO:
18
          Q Let me rephrase. Could a survey of consumer
33
      bahavior, could that bely you in your -- form your basis
20
      on a decision of whether or not the warnings here were
2.1
23
      adequate?
               MS. DIEE: Objection. Vague, ambiguous,
23
      compound.
24
                THE WITNESS: You'd have to give me more
25
                                                     Page 112
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information. ws brgt: Yncomplete bypothetical. THE WITNESS: On the face of it, I don't see BY MS. MILUSO: Well, your opinion that the warnings are ٥ adequate, is it not based on any type of consumer hetavior? It's based on a lot of studies and information gathered over years that address different aspects of warnings and how information is presented on products and the tradeoffs with manuals, and all of those kinds of 12 13 things have been looked at, so they -- it's based on a whole history of warnings. 14 Q Let's -- you brought with you the article by 15 John R. Heli, I'm going to mark that as Exhibit K, and 16 it's dated March 2009 and it's from the Natural Fire ٤7 Protection Association, Fire Analysis and Research 113 Division. This is also -- this is also called MFPA, 1 19 believe is the initials. This is called Home Fires 20 Involving Clothes Oryers and Washing Machines. 23 (Exhibit K was marked for identification 22 by the court reporter and is attached hereto.; 23 BY MS. MILUSO: 24 Can you tell me why this is in your collection 25 Page 113

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EHP LARSON 073834

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olean and -- as a cause of fires but you're not an expert
     in the area of fire cause, are you?
2
             I think we established early on that I am not a
3
     cause and origin person.
          Q Ckay. You mentioned in your report that the
5
     NFPA includes several safety tips in its report,
     including the -- cleaning the lint filter before or after
     each load; right?
               And if I were to tell you that cleaning the
10
     lint filter would not have prevented this fire, how would
11
     that affect your opinions?
1.2
               MS. DIEL: Objection. Incomplete
13
     hypothetical.
14
               THE WITNESS: Well, if that's true, that is
4.6
     still something important to include in safety
     information to the extent that it might be related to
17
     other fires. What you can't do is design a warning -- or
     what you shouldn't do is design a warning all around one
1.9
     BY MS. MILUSO:
21
          O There are cortain things that the manufacturer
22
      can do to increase the likelihood that a warning is going
2.3
      to be followed?
2.4
                HS. DIEL: Objection. Vague and ambiguous.
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of materials?
              Yes, it relates to, on page 5 of my report, a
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          Α
     paragraph -- the second full paragraph, there are a whole
ŝ
     series of documents here, the Ball report being one, the
     CPSC document being another as examples of descriptions
     of actions that can be taken or that are related to
     clothing dryer fires. And in looking at the -- these
     documents and the information that's contained in them,
     my conclusion was that the Electrolux warnings and safety
     information specifically addressed a variety of factors
10
     associated with clothes dryer fires, incloding cleaning
1 3
     of the dryer, and that's what some of this information is
12
13
          Q Do you know whether these studies included
     Rlectrolux drvers?
15
          A The Hall article, whether some of the accounts
1.5
     of information that's in there, whether some of those
17
     would involve Electrolux dryers --
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-- is that your question? А

0 Ves

I would assume so given that Blockrolux dayors ä are among the population of clothes dryers that are cut

Is there -- you talked about the failure to

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THE WITNESS: Woll, what a manufactures can do is have information be available in a location where consumers might interact with it and provide it in a manner that it can be understood, BY MS. MELUSO:

Q And do you think that the use and care guide warning lets a consumer know that lint can accumulate in a place that they cannot see behind the drum, do you think that that adequately warns a consumer of that risk, of that danger?

MS. DIEL: Objection, Vague, ambiguous, overbroad, incomplete hypothetical.

THE WITNESS: Are you asking in the section about the interior of the dryer, lint screen housing and exhaust duct should be cleaned approximately every 18 wonths by qualified sorvice personnel, is that --BY MS. MILUSO:

Q -- the specific -- an excessive amount of lint build-up in these sreas could result in efficient drying and possible fire? It included the list screen warning as well here. I mean, there are -- within this description, there are indications that parts of the system, the dryer and the exhaust system, aren't --consumers know that those aren't all visible to them and

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it's saying they should be cleaned approximately every 18 months, not by the consumer him or herself but rather by a qualified service personnel.

- Q Well, there is a cost associated with that, right, with having that service personnel come?
 - T thick we covered some of that already.
- Okay. So in this case, they purchased that agreement, but do you know what the cost would have been if they hadn't purchased the agreement?

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- Do you know what the cost would have been to ō the Haroutounvans --
- And by "cost" there you're meaning the dollar A апонят?
 - Dollar amount cost.
- And what other costs would have been associated with having an authorized service person come, if you think there are any other costs?
- Well, the cost of compliance that -- that term that's used in warnings-related research often does not relate solely to money but rather amount of effort, and some of that's already been talked about in these denominations about having to stay home and wait for somebody to arrive. Those kinds of things are costs in

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amount of effort. O Okay. Let's look at the CPSC documents that you referred to, and I believe we'll mark that as L. (Exhibit L was marked for identification by the court reporter and is attached hereto.) BY MS. MILUSO: Q In's called document 5022, June 2003. Can you doscribe what this is. 1.0 A This is a document that was issued by the 3.7 Consumer Product Safety Commission. It is entitled "Overheated Clothes Dryers Can Cause Fires" and it describes some of the erens to take to belp prevent ٦٤ : Okay. And why do you have this here? What 16 0 makes this relevant to your opinion? 17 A This and the document that we just talked about from the NFPA are discussed in the second full paragraph 1.0 on page 5, and those kinds of actions that CPSC is 26 suggesting are ones that are also in the Electrolux 23 72 information. okay. So the Consumer Product Safety 24 n Commission warning, there are these -- I guess it's a 23 warning, right, or it's a document. I don't know, a

terms of people's time and effort, calling -- making a

call to make the appointment, that requires a certain

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document 2

- It's a document. It can be -- it's certainly information intended for consumers about dryer fires.
- Q Okay. I'd like to read in the first sentence at the top there and I'm assuming it's the reason why this was issued. It says, "The D.S. Consuser Product Rafety Commission estimates that in 1998 clothes dryers were associated with 15,600 fires, which resulted in 20 deaths and 370 injuries. Fire can occur when list builds up in the Gryer or in the exhaust duct. Lint can block the flow of air, cause excessive heat buildup and result in a fire in some dryers." Do you -- it's not clear, though, from here any specific dryers; right?
 - That's right.
- And I'm sorry, it was your testimony that all of these warnings exist in the documents that wore provided to the consumer in this case?
- The -- these topics are covered in the materials that Electrolux provides. I'm not saying that it's the same words, exact same words, but similar
- Ckay. Let's go to what we talked about earlier a little bit, the documents you brought with you as a comparison of maintenance and/or warnings. We started talking about the gas formace and so I want to understand

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why this is relevant to our case about a dryer? A Well, one of the -- one of the points that 2 Dr. Doris made was that he seemed to think that other appliances generally didn't have suggestions about maintenance, periodic maintenance, and that that would be unusual. And what I'm indicating here or providing scae 6 7 examples of is appliances that are common -- commonly found in people's homes, a gas furnace is one example and the water heater as another example and suggests that poriodic maintenance be done on these appliances. And 10 then I also included excerpts of pages of a motor vehicle 11 So this installation instructions that came with the furnace, let's mark those as Exhibit M. 14

(Exhibit M was marked for identification

by the court reporter and is attached hareto.) BY MS. MILUSO:

- What's types of periodic maintenance is required in this specific gas furnace that you brought along with you?
- A There is a section in the table of contents that says "Regular dealer maintenance," and if you turn to page 7 it talks about the blowers, and the annual cleaning of the blower wheel and housing is recommended. For maximum air output, this must be performed only by

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BY MS. MILUSO:

BY MS. MITTISO:

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relavant?

manual here as Exhibit C.

maintenance and servicing.

maintenance on their vehicle?

qualified servicer or service agency.

- Does it mention the risk of fire?
- I'm not sure that it is specific to fire, but it's in a -- there's a section of hazardous gases, there's a section about not altering the unit, there's carbon monoxide poison hazard warnings in here. I'm not saying that these -- that maintenance of all of these different appliances that I've provided examples of are specific to fire but rather that there are recommendations for periodic maintenance of appliances that are common appliances for the home that are found in users guides and information that is -- accompanies a product.
- Okay. You brought with you also the instructions for a gas water heater. Can you point me to where the service maintenance -- sorty. I'll mark that as Exhibit N.

/Exhibit % was marked for identification by the court reporter and is attached hereto.) THE WITNESS: On page 20 under the section on maintenance there are suggestions that at least every three months a visual inspection should be made of the venting and air supply system, piping systems, main burner and pilot burner, check the water heater for the following and then it has four different items under

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EHP LARSON 073843

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- I don't know that they know that they're remained to. I would think that people who have owned cars and have looked at their motor vehicle manual would he aware that that was something that was recommended by the vehicle manufacturer.
- Q Okay. And do you think that they know that it's recommended that they do this service even if they don't read this?
- I think they might know that there would be information in the manual that would contain those recommendations even if they don't read it.
 - Do you have a car?
 - I do I bave a car.
- Do you do regular service on your car? Do you bring it in For regular service?

 - And when do you do that?
- I try and do it in accordance with the manufactures's recommendations.
- How often do you refer to your instructions Ö that came with your car?
- Oh. I dog't know. I don't know how often I 75. look at those.
- 24 0 Do you have -- is there like a sticker in your
 - car maybe that says get your oil changed every -- you

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į.	know, so at this point when you hat these miles, get your
2	oil changed; do you have that?
3	A I do have a sticker that the place where I have
4	the car serviced puts that on.
5	Q And is that one of the is that one of the
6	indicators for you that, oh, gosh, I should go bring my
7	car in, is that something that reminds you?
8	A It is something that I use, yes.
9	Q What else do you use to remind yourself to
0	bring your car in for regular service?
1	A I have a sense of bow many miles I drive in a
3	month and that is useful. I also have an odometer that
3	tells me how many miles I've driven.
4	Q And when was the last time you had your car
5	serviced?
6	MS. DIEL: Objection. Relevance.
7	BY MS. MILUSO:
8	Q The same question was asked of my expert, I'm
9	entitled to ask the question.
6	A I believe it was last year.
1	Q And do you remember why you brought it in?
2	A I think it was a major service, like 65,000
3	miles or something.
4	Q Okay. And other than those major services and
5	getting your normal oil change, when else have you
	Page 124

that, including obstructions, demage or deterioration in

the westine system and the haild up of sect and carbon on

Q And you talked about a car and we should get

(Exhibit O was marked for identification

Again, it's -- a car is a product that many

consumers will have. They will be familiar with the fact

that not every warning related to a car that might be --

that might come from the vehicle's panufacturer will be

on the vehicle or in the occupant compartment itself and

that there will be other information in a manual that

are just some of the pages from a Camry 2006 about

will be related to maintenance and servicing, and those

O Do you thick the average car consumer knows

without reading this that they are required to do regular

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into that a little bit. I'll mark this car maintenance

by the court reporter and is attached hereto.)

Why is this car maintenance document

the main burner and pilot burner, so there are a number

of different aspects that are suggested there.

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brought your car in for service for, like what other instances led you to bring your car in for service?

A lf there was something unusual in its performance. I'm trying to think of an example. I'm sure that that has occurred in my lifetime of driving

Q Can you think of the last time you had someone in your home to service one of your appliances?
MS. DIEL: Objection. Irrelevant.

THE WITNESS: Yes, I can think of thet.

PY MS. MILDSO:

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Q=O(kay). When was the last time someone came into your home to service an appliance?

A. Within the last two years I've had somebody come out and service the furnace.

Q Ckay. And did you -- why -- what led to that service visit, did you call them?

A I did, I called them.

Q Do you have a normal service agreement with this company?

A I den't.

Q And why did you call them?

A The furnace itself has a filter in it and the recommendation was to have somebody who knows something about furnaces do the monitoring of it and check it and

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Q No you recently your instructions telling you to have someone regularly service your dryer?

A I don't; they could be there.

Q Okay. I'm almost done. Other than what you've put in your report regarding your issues with Mr. Doris's report, do you have any other concerns or issues with any of plaintiffs' positions in their expect reports?

A Beyond what's in my report?

Q You talked a little bit about Mr. Parsons and Mr. Stoddard's warnings and you cite on page 6, for example, in their report they call for the addition of three Lights on the front of the dryer, one each next to the messages, clean exhaust system or check exhaust system, service dryer soon and service dryer now. Do you have any opinions about these — the monitoxing system they recommended?

A I have — in the next paragraph I talk about some issues that can be related to attempts to deal with those types of warning system and having — what kind of consumers responses you can get so that when the — they altimately get to them, possibly having the dryar shut down, disengage the heating element. Although it wasn't all laid out clearly amough for me to understand, but there have been certainly other circumstances where these kinds of interlocks have been proposed for other products

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               What -- do you have any other products in your
2
     home that you had serviced in the last five years that
7
     you can think of?
              I've had the chimney checked, I've had a lot of
     products replaced.
              Why did you have a product replaced?
               The toilet just wasn't working anymore.
8
               And when -- I mean, do you have a dishwasher in
     vour home?
10
11
               And do you have that regularly serviced?
72
               ly's -- I have not had to have that serviced.
13
               Do you have a stove in your home?
14
          A
               Have you had that regularly serviced?
          ٥
               And I think at some point earlier you told me
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     that you had a service agreement for a dryer. Do you
19
     have one on the Amana that you have currently now in your
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     home?
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I don't recall having done that.

Rave you had anyone to regularly service your

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EHP LARSON 073847

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that have met with a great deal of consumer resistance when they were confronted with -- and I use the example 2 of the interlock on seat belts where a car wouldn't start 3 unless you had your seat belt already fastened. There are other kinds of interlocks that I know are sometimes ς, intentionally overridden by some consumers and then there's the example in the consumer reports review that looked at the indicators on some dryers that were 2 svailable in 2010 that determine that the current indicators on those particular appliances were too 10 inconsistent to be able to trust.

Q Have you brought a copy of this consumer —

A I don't think I have that with me.

14 Q Okay. I would like a copy of it.

15 Cathy, on the record, I'd like a copy of the 16 consumer reports, July 2010.

THE WITNESS: I apologize for that, that should be here but I did not brisg it.

BY MS. MILUSO:

20 Q And did you bring a copy of the laws -- Public 21 Eaw 93492?

22 A I didn't. Those are all very public laws.

Q Oway. I'll be able to find them, I'm assuming.

Ara these in California or are they federal?

A They're federal.

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Q Okay. Do you have any issue, generally, with active monitoring systems on products? Do you think that they are helpful?

A The -- I think it will -- I think it will depand. It's very specific to the equipment and what kind of response you might get, so I indicated here that just proposing this doesn't necessarily result in the consumer response that you want and we have examples of, in the past, where that has occurred and we have examples where -- in other situations on dryers where they may not be reliable enough for consumers to count on. So certainly in some kinds of circumstances they have been known -- for example, smake detectors, they have dramatically out the risk of fires, numbers of fires, actually, and injuries and fatalities associated with fires, and they -- there's a -- kind of an active slarm that has been very effective.

Q Do you have any reason to believe that an active monitoring system would not be effective in this case, based on what you know as an expert in your research?

A The consumer reports article is specific to dryers and their determination was that they didn't behave in a reliable manner, and if you have indicators that are not reliable, are not -- are coming on when they

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sure I mark it. I believe you brought some deposition indices with you?

- A Yes.
- Q Are these documents that you made?
 - A My staff did.
- Q Your staff did, and did your staff -- is what you've brought here today other than the consumer report article that we talked about and the contents of the CD, which for the most part are here --
 - A Yes.
- g --- did --- is this the totality of the information other than what you know from your own experience that you relied upon to make your opinion?
- A Yes, it represents the case specific information that I've got, plus the information that I looked at specific to writing my report.
- Q Oway. Did you read the depositions of the insureds in this case?
 - A I have.
- You have, and have you reviewed these indices that your staff prepared for accuracy?
 - A I have -- well, not for accuracy.
 - Q Just roviewed them?
 - A I have reviewed them, yes.
 - Okey. I'm going to mark your indices here as

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Samoff, A VERITEXT COMPANY 877-955-3855 shouldn't come on or are not coming on when they should come on that -- then that information gets discounted and ignored.

- ϱ . Does it get -- do you have any opinion whether it gets ignored more than the user guide or manual?
- Q Okay. It's not uncommon, is it, that a consumer doesn't read the manual, is it?

MS. DIEL: Objection. Overbroad, vague and ambiguous, incomplete hypothetical.

THE WITNESS: I think we've talked about when it is that consumers will read manuals, some of the factors that prompt a consumer to read a manual, you know, they're seeking information, the product might be unfamiliar, it sight be perceived as unusually hazardous but those kinds of things are more likely to result in consumers looking at information, but some of it is going to be specific to the consumer, some of it's going to be related to aspects of the product, some of it's going to be in the environment that it exists in, so there's not some percentage that you can say, this is what it is for all product manuals, all products.

BY MS. MILUSC:

Okay. Let me just collect everything and make

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Exhibit P. I don't know if we marked this Sears
protection agreement.

(Exhibit P was marked for identification by the court reporter and is attached hereto.)

MS. DEEL: I don't think so.

MS. MILUSO: All right. Let's just mark that as Q, I just want to make sure we all know what happened here. I think everyone has a copy of that.

(Exhibit Q was marked for identification by the mount reporter and is attached hareto.) MS. MILUSO: Just give me one moment and 1'll finish up.

- Q Can you tell me -- you said you do litigation work at least 65 percent of the time, can you tell me what you do the other 25 percent of the time?
- A Yes, I develop safety information, I do parform risk analysis, I look at -- 1 get involved in the design of products from a human factors perspective, I assist clients that escounter issues that are being raised by regulatory agencies.
- Q What types of issues are raised by regulatory agencies that you got brought in on in a case like
- A They can be a concern about a particular aspect of a product, tipovers and catch points and entrapments

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and it can be a whole variety of different aspects. and often times is one of the agencies the 2 Consumer Products Safety Commission? Yes. And do you -- do you get brought in on cases when reports have been made to the Consumer Products Safety Commission shout problems with products? A It sometimes relates to information that bas come into the Consumer Products Safety Commission that that agency has concerns about. 10 Have you over been retained by the Consumer 11 Products Safety Commission to study inadequacy of a 1.2 33 warming? No. I don't think so. 14 Bave you consulted specifically for the 15 0 Consumer Product Safety Division? Within Exponent, I have. In what circumstances did you do that? It related to a softball, some portioular aspect of it. I can't remember now whether it was size 20 or hardness of it and people's ability to use that kind 21 of a ball. 22 The company you work for is Exponent, would ō 23 that be accurate? 24 25 A Yes. Page 133

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I don't think so. Whatever you might ask me at

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trial, but I think we've covered, between the deposition 2 and the report, what I would expect to testify to. Q Okay. We requested your billing and information, I believe, in our deposition notice. Did you bring any of your billing information related to this case with you? We have not submitted an invoice yet. Can you toll me how many hours, if you know, that you've worked on this case or an euclimate? 10 s hesitace to cive you as estimate --11 More than ten? 12 0 13 -- it's too much of a quess. Less than ten? 14 It's going to be more than ten. 13 More than fifteen hours? Q 16 1.7 Ä well, I'd like your billing information. 0 3.8 Cathy, I'll put that on the record, I'd like 1.9 any invoice that you have received or some estimate on 20 her time, if possible, if she can provide that. Even it 20. it's a partial invoice, I think we should be able to obtain that. MS. DIEL: Okay. 24 MS. MILUSO: Okay. 25 Page 135

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And we talked about the cases that you've
     worked on for Electrolum regarding dryers, have you -- do
     you know if anyone slae at Exponent has been retained by
     Electroism or has worked on Electrolum cases?
              well, a map by the name of Dwayne Stephie
     (oboneric) has done so.
          Q Do you know those cases and what the
     circumstances of those were?
          A Well, I don't -- I don't know all of them but
     he has done some statistical analysis that -- jointly
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     with me, and I believe Tray Morrison,
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              Does Tray Morrison work for Exponent?
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               And in what context, what's his specialty?
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               Thermal scientist.
               Has he worked with you on any of the cases you
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     talked about today, Slabach or Powers or this case?
          A We -- I have not worked with him. I believe
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     that he's been involved in doing some cases.
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               Have you ever talked with him about any of the
23
     wases that you've worked on?
               I don't -- I don't recall having done so.
          A
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               Okay. Do you have any opinions outside of what
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     we discussed today or what's in your report regarding
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And do you know how many hours you've spent
     since June 4th on this case?
               Basically preparing for the deposition.
               And what did you do to --
               And traveling and --
 6
               What did you do to prepare for the
               I went back over the report, I went back over
8
     the deposition testimony, I looked at Dr. Boris's
     testimony, basically I reviewed the various esterials,
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     particularly those that I brought to the deposition.
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          Q Did any of your opinions change since you've
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     written your report based on any new information that
      you've reviewed?
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                MS. MILUSO: Okay. I'll just state one more
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      time for the record, we'd like a copy of the Consumer
17
      Reports article, we'd like a copy of any billing or
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      interim billing or some estimate of time, even if it's
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      notes, and I think we've been provided --
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                I'm sorry, how much do you charge per hour for
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      testimony?
                THE WITNESS: The company bills my time at $440
2.3
      an hour and that's regardless of what I'm doing.
      BY MS. MILUSO:
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So your research time versus your deposition transcript -- I mean, deposition time is the same? And is your testimony at trial the same as O well? It is. MS. MILESO: Okav. Let's go off the record for (Discussion off the record.) MS. MILUSO: The parties have agreed to receive 10 a copy of the transcript via e-mail on Monday, June 11, 11 the day of the start of trial. Ms. Wood will make best 12 efforts to review that as quickly as possible and get her 13 signature page done and her extate done as quickly as 1 A possible. If there's a date -- maybe if we don't 15 receive -- I know it's a little ambiguous, but if we 16 don't receive an errata or a signature prior to the 1.7 testimony of Mr. Doris, then we'll accept that -- her testimony and -- as basically a waiver of signature and accept that as a final version. 2.0 MS. DIEL: The only thing is that Whalen 21 (phonetic) would not stipulate to that with me when I 22 took depositions. He would only stipulate that the 23 witness used best efforts and that I use best efforts and 24 he used best efforts to have the witness review the Page 137 Sarboff, A VERITEXT COMPANY

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2 5 T. CHRISTINE TALBOT WOOD, do hereby declare under penalty of perjury that I have read the foregoing transcript; that I have made any corrections that appear 1.0 noted, in ink, initialed by me, or attached hereto; that 11 my restimony as contained herein, as corrected, is true 12 13 EXECUTED this _____ day of _____ 1.4 1.5 2012, at _____ 15 17 18 19 CHRISTINE TALBOT WOOD VOLUME I 20 21 22 23 24

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testimeny as seen as possible and communicate the information between the attorneys as quickly as MS. MILOSO: Ckay. Well, we'll use that same Ā scipulation and if there's -- for some reason Mr. Doris testifies prior to Ms. Wood them maybe the parties can have a brief conversation as to whether or not they think Ms. Wood is going to have any changes. MS. DIEL: Agreed. 10 MS. MILUSC: So stipulated. 11 (TIME NOTED: 6:39 p.m.) 13 1.5 15 36 17 18 19 20 21 22 23 24 23 Page 138 Samoff, A VERITEXT COMPANY

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2 3 I, the undersigned, a Certified Shorthand 4 Reporter of the State of California, do heraby certify: That the foregoing proceedings were taken before me at the time and place herein set forth; that any witnesses in the foregoing proceedings, prior to testifying, were placed under path; that a verbacin G, record of the proceedings was made by me using machine 10 shorkhand which was thereafter transcribed under my 13 direction; further, that the foregoing is an accurate 12 transcription thereof. 13 T further certify that I am neither financially 1.4 interested in the action nor a relative or employee of 15 any attorney or any of the parties. IN WITNESS WHEREOF, I have this date subscribed my 20 Dated: 6/11/12 21 22 23 RAMONA LUX 24 25 Page 140 Samoff, A VERITEXT COMPANY

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	INSTRUC	TIONS FOR R	EADING/CORRECTING YOUR	DEPOSITION		Page	Line			
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	Cat Pris 310 Les	thy Mutter Diehl, E gdie, Amere, Goetz Golden Shure, 4 ² ng Beach, CA 9080 Siect: State Farm :	, Hillyard, Heinas & Kammonz Li.F Floor				• Nears Using this information, Reposeent has determined that if does not extractly have a conflict that would proclude us from axisting you in this matter. Please inform one as soon as prestine if this list of partice is inaccurate or incomplete, or if other particle become involved as this matter proceeds. Pursuant to our Terms and Condition of Appearant, it is the policy of Exponent to request a retainer of \$3,000. The relation will be fined on account until the final invoice last book instead. At that then, you will have the offers of paying the invoice in field and requesting a refund of your retainer or applying the retainer against the final invoice. Pappearant will begin work after the revealed rise is exposed. Exponently Related and D number 6: 77-201 [894] and is included ea all.			
	Tis		g Exponent Faikine Analysis Associates (Exp ferenced matter. This tetter presents dur ours	smant) for technical services ent understanding of the			Please indicate y	our wadetslanding and ac	contance of the terms of retention	by signing and id the 30 calendar
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LAW OFFICES OF FRINDLE, AMARO, GOETZ, HILLYARD, BARNES & REINHOLTZ LLP

Christine T. Wood, Ph.D.

May 3, 2012

CMD:refe

S.ANTAR CARL RESISTANTANTANTO DE LEICH des

Re: State Farm General Insurance Company (Haromoranyan) v. Electrolas Hesne Fraducts, his est al.

Would you please contact us after you have had a chance to review the documents?

Very Indy yours,

PRINDLE, AMARO, GOETZ HILLYARD, BARNES & REINHOLTZILP

BY: CATHY MULLISH DIGHL

LAW OFFICES OF PRINDLE, AMARO, GOETZ, HILLVARD, BARNES & REINHOLTZ LLP

NIO ORLINEN SHORE, FOURTH PLOOR LONG MERCH, CALIFORNIA SCHOOL PL, EPISONIE 862-148-3506 FAX 162-455-0564 PRINCESS, AV, COM

CARY E NORD J _AWPENCS (VS)

May 8, 2012

CATHO MILLER DODG CHIEF I SERVICE PLAN COST

VIA OVERNIGHT

Christing T. Wood, Ph.D. Exponent 149 Commonwealth Drive Mealo Park, CA 94025

State Farm General Insurance Company (Haroufounyan) v. Electrolax Home Products, Inc., et al. Our File No.: W(IIF0254

Please find enclosed the following encuments:

(I) Complaint;

(2) Deposition transcripts and exhabits of the insureds, Mel Haroutounyan and Alenoush

(3) Deposition transcript of Lerry Brown (Plaintiff's C&O), and the photographs he took at the se

(4) Report of Larry Brown;

(5) Report of Alsa Dorris;

(6) Report of Michael Staddard and Ron Parsons and appendix,

17. Wornings provided for the dryer:

78) The & Cart Guider and

(9) Installation Instructions

AND LANGUAGES

PERMITAN

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EHP LARSON 073867

Exponent Anghols Astocistes

June 4, 2012

Cuthy Muffer Diehl, Esq. Prindle, Amero, Goetz, Hillyard, Berner & Reinholtz LLP 310 Golden Shore, 4th Floor Long Beach, CA 93802

Subject: State Parm (Hamutounyan) v Electrofux Project No. 1204640.002

I am writing to summarize the work undertaken by fixponentife Failure Analysis Associates in connection with human factors issues in the above-referenced case and the conclusions reached on the basis of work to date.

I received a Bachalor's Degree in psychology with Distinction and Honors from Stanford University and hold a Ph.D. in experimental psychology also from Stanford University. I am a Principal Scientist and Director of the Human Factors Practice at Expenses. I am irreduced in the analysis and evaluation of human behavior in response to information intended to change behavior and reduce injury rates. I have studied the area of human information processing, isoluting the specific context of processing safety information associated with products under various circumstances. I have written extensively on the topics of human information processing, safety information, and werning label development. I have applied experimental cleague and statistics for the purpose of measuring the effectiveness of warnings. I am no unabor of the Human Factors and Ergonomics Society, the American Educational Research Associativa, and the Society for Risk Analysis.

A list of my publications can be found in the copy of my resume, which is attached. Exponent convents obtains my time at a rate of \$4.40 or hour. arges my time at a rate of \$440 an hour.

Over the past 10 years, a sizable amount of literature has developed on hebavioral responses to risk communications. Significant reviews of and amotated guides to the literature for different periods and content areas can be found in McCarthy et al. (1984), Ayes et al. (1994, 1998), Miller & Lehto (2011), and Deloy et al. (2008), Key factors considered in the scientific literature inclode the likely effectiveness of providing a warning about a particular hazard (e.g.-Deloy et al., 2006) sumercal et al., 1985; Ayres et al., 1994, Arraft et al., 1998; Dorat Purswell, 1977), labeling divedives presented by equalatory agencies and in relevant standards and guidelines (e.g., Sala et al., 2010; Wood et al., 2006) Diedrich et al., 2001), relationships

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Dorris, 1991; Frantz et al., 1999; the likely effect of formatting and the inclusion of specific warning elements on compiliance (e.g., Young et al., 2002; Goot et al., 2003; Weatherly et al., 2004; Meatherly et

fixed on the review of the supplied materials, I have the following understanding of the

On the eventing of November 23, 2008, a fire occurred, which altegedly originated in the dayer, on a residential property belonging to Med Hanoutomyna and Alencoch Adamian in Gloudale, Catifornia. On the day of fine incident, Ms. Adamian restricts that she died had a load of Landorfy for 15 as 10 minutes and utneath or dayer of the force leaving the house. Ms. Adamian testifies that they got home the turned the dayer of the force leaving the house. Ms. Adamian testifies after they got home the turned the dayer back on to fully dry the clothes, which were damy. The testimony suggests that after the dayer was operating for approximately thrus to ten minutes, Ms. Adamian smalled a benefulg smell, notified her busband, and they and their son left for home. The fire department responsible to the fire. No one was injured in the fire.

The incident dryer is a Kenmore gas dryer, anodel 41793142200, manufactured by Electrolux, ⁶ The dryer was purchased by Mr. Haromotonyan and Ma. Alexansh Adamian on April 13, 2693 from Sears, ⁷

Citrodale (for Department Incident Separt), Complaint for Property Danings
Adminis, pp. 44, 46-47
Adminis, pp. 44, 46-47
Adminis, pp. 47-40
Adminis, pp. 47-59, Harmatounyws, pp. 56-55, 38-59
Clouddle Fire Department Incident Report
Pendanc Information from Sodgreich CASS, Department of Hall Harmatounguin ("Hervanounguin"), pp. 31-33;
Department of Adminish Adminish Pendandari Pendan

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It is alleged that the dryer failed to corrain adequate warnings or instructions with regard to fire hazards and a potential for lint to accumulate within the dryer cabinet and gas barrier and ignite a fire.

Based on my review of case materials and other information identified on the strached list of materials, and my education and experience, I have determined the following:

Warnings and Safety Information Provided with Electrolux Gas Dryers

Electrolist provided numerous warnings directed at fire hazards associated with the account and information on how these hazards could be mitigated through proper installation, maintenance, and use of the Nemmore dayer. These warnings were presented in a variety of locations both attacked to the city or and in literature accompanying the dryer. Some of the safety information is directed at asers of the dryers and other safety information is directed at installates and those who service the appliance.

Safety information intended primarily for consumers is included in the Use & Caro Guide, the Operating Instructions, and a label on the dryer drum. The Use & Caro Guide instructs the user to read all instructions before using the dryer and so save the instructions contained in it." In the front of the Use & Caro Guide is a section "important Safety Instructions," several warnings that are distinguished from other portions of the manual by the inclusion of a safety alert symbol (a triangle surrounding an occlemator) pointy out the signal word "WARNING," in this section consumers are given specific instructions on how to reduce the risk of fire including:

- Clean the list screen before or after each load. The interior of the dryer, list screen
 futuring and exhaust their should be cleaned approximately every 18 meants by qualified
 service personnel. An excessive meaner of the building in these areas could result in
 institution drying and possible fire. See Care and Cleaning, page 7.
- Do not operate the dryer if the lint screen is blocked, damaged or missing. Fire hazard, evertheating and damage to fabries can occur. If your dryer has a drying nack, always replace the first screen when finished using the drying rack.
- Reop area around the exhaust opening and surrounding areas free from the accumulation
 of fint, dust and dire.

Consumers are given further instructions on how to prevent fires, including not using heat to dry items containing from subber or similarly textored robber-like materials, not drying items that

* Corepialet for Property Demage

* Use & Care Guide, pp. 1-4

* Ose & Care Guide, pp. 2-4

* Use & Care Guide, pp. 2-4

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have been in contact with flammable materials or cooking oils, and not spraying any type of accreant hear the dryer. If Issus are further instructed not to stars or use flammable vapors and Hapida's in the vicinity of the dryer. If The Issus A. Care Goide also constains werning information in socitions that address protecting children and preventing injury. If Forther, consumers are warned, "To prevent injury and damage to the dryer: All repairs and servicing must be performed by an authorized corrider unless specifically recommended in this Owner's Guide."

The Use & Care Guide provides consumers with guidelines in the "Drying Procedures" section, including the instruction to "Cheek that list across is clean and in place" prior to fooding the dryer." In the "Care and Cleaning" section consumers are instructed to "Clean the first server after every back," and are previded with instructions and an illustration of how to clean the list server. "Construct with information provided in the "Important Safety Instructions" section of the guide, consumers are instructed not to eperate the dryer without the list server in place, and to have an authorized services clean the dryer cabinet interior and exhaust duct every 18 storates as "[a]n excessive amount of list build-up could result in inefficient drying and possible fire bastant."

Additional safety information is contained in the Operating Instructions, which instruct the user to read the Les & Caro Guide before operating the deper. Following the safety alort symbol and the word "WARNING" it warms users to reduce the risk of fire, to "read the IMPORT ANT SAFETY INSTRUCTIONS in your dryer Use and Care Guide before operating this appliance. The section "Operating Steps" contains steps to take to use the dryer, including checking that the list screen is clean and in place prior to loading the dayer and cleaning the list screen strength of the control of the procedures" section of the user's manual for more detailed information. Additional information about Temperature Selections, Cyclo Selection, aftergry Saving Tips is included in the Operating Instructions, as is a warning to not use heat to dry items containing from rubber, pinstle, or similarly issuared, rubber-like-materials

Electrolics also provided specific warnings on the dryer. ²⁰ The label has the safety alort symbol and the word "WARNING" followed by the information "To avoid fire hazard, persuinal injury or lire damage – inclading spontaneous combustier," and instructions to "Chen his screen before or after each load" and not to dry foam rubber or similar materials, or articles that have her exposed to finantiarbid-combustible liquids or solids. The tabel warms, "CAUTION—A clothes dryer produces combustible limit and must be exhausted outdoors. Care should be taken

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The & Care Oride, p. 7

** Use & Care Oride, p. 7

** Use & Care Oride, p. 7

** Opening learnerform

** Label is 1318241, Sav B

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The safety information provided with the Kentmore dryer identifying fire-teined hazards and appropriate installation and cleaning procedures provided by Electrolits was reasonable and adopted in terms of its location, content, and formet and was consistent with applicable industry statedards, guidelines, and practices.

Mr. Persons and Mr. Stoddard recommend additional warnings as part of their redesign to address the same parential bezards. For example, in their report they call for the addition of three lights to the front of the dryer—one each text to the message "CLEAN EXHAUST SYSTEM" «"CREACE ENDIAGES TSYSTEM" «"SERVICE DRYER SOON," and "SERVICE DRYER NOW." They propose that an active monitoring system of the dryer would elemnine which, if any, of these lights should be librarinated, and could shandlaneously disengage the busing element, proventing the dryer from producing any heat.

heating element, preventing the dryer from producing any best.

The pairing of an "interfacel" that disengages the beating element as gorf of the proposed monitoring system of cliber the air-flow or "paintenance" schedule as put forward by Mr. Parsons and Mr. Stoddard rises a number of potential concerns from a koman factors perspective. From the description offered in their report, if appears that the proposed interface would disengage the heating element, but offereive allow for the operation of the deyer. Though Mr. Parsons and Mr. Stoddard clidm that users would then respond a certain way to this interface has dwarring system (i.e. containing an authorized severice prevant or disensemble and inspect the dryer), they offer nothing to support that serse would set in that manner. Users may not initially notice or understand that the dryer is not producing but or what is provening it from doing so, Indeed, users may continue to use the dryer. In practice, such interfeck designs have actually been met with canadicable outer oppraished as well as various overrides to invalidate these interfecks. For example, in response to intempts to proven the uperation of automobiles by drivers who did not have their safety belts tackled, which canadication prohibiting such a system and the Patienal Highway Traffic Safety Actinitariation capitally removed such a interfeck system. However, ultimately, Congress passed legislation prohibiting such a system and fine Patienal Highway Traffic Safety Actinitariation capitally removed such a interfeck as an option to manylogurura, specifically lefting users' negative response to this design. Visions have interficient event redstance to these types of features' preference in the mission of incursivent in the metal and the base proposed concluded from their testing on duci-blockage indicators that "current indicators are too incursistent to trust."

While Dr. Dorris acknowledges that noncompliance with warrings does not mecessarily make a warring inadequate, he opines that the warrings provided by Electrolux are inadequate because they require "excessive or dispropriouston measures for compliance". If the does not purpose alternative warrings that would exercise his concerns and would have prevented or reduced

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to preven the accumulation of first around the exhaust opening, and in the currounding area." A telephone number was also included on the labels which users could call if they had any questions about the appliance.

In subition, a Costoner Instruction Check List is provided with the dryer, notifying the user to "Poillow This Check List For Best Drying Performance," to "Read the Dryer Owner's Guide and Operating Instructions" and to "ALWAYS clean your last fine BEFORR every drying cycle" with an accompanying Hustration.²²

It is recognized by the National Eire Protection Association (NPPA) and the Consumer Product Safety Commission (CPSC) that list accumulation within electric dynamics and expected the state of the NPPA reported that for hower first heat build-up, possibly resulting in first. For example, the NPPA reported that for hower first from 2003-2006, the most common factor contributing to the liquition of elothes dryers was the "failure to elem." ²³ The NPPA includes several sefrey this first proof, including classing the fine filler before or after each teach. The CPSC has also recognized this problem and recommends that users of elothes dryers clean the fint serrors filler before or after each that the dryer where fint each build sp, and to have a cervice person clean the interior of the dryer classis periodically to minimize the amount of Inti secundual form. Appropriately, Betterrioks warnings and safety information specifically address a varlety of factors associated with clothes dryer first, including cleaning of the dryer.

Analysis of Adequacy of Warnings and Safety Information

ARM yes to Necessary to Whitman Standard for Gas Clothes Deyers, is a voluntary standard that provides guidance for the safety infarmation provided on and with gas deyers. The safety information provided on and with the recommendations in ANSI 27.1.5.1.2002. Although Plantiff is experts Ronald Parsons and Michael Stoddard are critical that the safety information provided by Electricias did not compily with U. 2158, "this standard is not applicable to this incident deyer. It. 2158 is a voluntary standard for electric clothes dryers and the dryer at the Harcottonyan/Adamien residence was a gost dryer.

The safety information contained within the Efectrolux installation instructions and on the product clearly communicates the need for proper installation and exhaust, the need to consistently ciscan and keep the dryer free of lint, and to have audicitized prevented clean the dryer appreciatedly every 18 months. Where applicable, those sources stay provide the appropriate actions to take and possible consequences of failing to take these actions.

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Report of Parsons and Stockbard, pp.83-89
 Pf. 93-692; 39 FR 38380; 39 FR 10222

Consumer Reports (July 2010) Report of Alan Duris, p. 5

[&]quot; Label B 1317862, Rev A

² Hall, 2009 ² CPSC Document & 5623, June 2003 ⁴ Report of Parces and Stoldard, p. 101

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the likelihood of this event. The purpose of a warning is to inform a user of possible negative connectenences as a result of taking or failing to take some action. However, research into the effect that warnings and safety information have on human behavior has shown warnings cannot motivate or face complaince. The fact that some consumers may not follow presented safety information does not make that information inadequate.

In contrast to Dr. Dorris' statement that appliances are typically serviced on an as needed basis, namuals for either appliances as well as motor vehicles provide recommendations about regular service selectules." Dr. Dorris' indicates that among other factors, it is not realistic for Electricitis to expect consumers to remember the recommended service interval." The time frame provided by Electricitis to of the dryer. Information provided a vice interval." The time frame provided by Electricitis to of the dryer. Information provided in the Use & Caro Childe consistently specifies that the unit be serviced at 18-month intervals and consumers can tack the time interval using any number of nethods. The applicable standard for the incident dryer. ANSI 27.15.17.1902, recommended that dryer instruction manuals include instructions about the used for "periodic examination of exhaust systems." ¹⁷²

Dr. Dorris opines that information Electrolax provided to its authorized servicers was not sufficient to inform them of how to clean the dryor. However, this opinion is not relevant to this case as the Haroutcomyan/Adamian family provides no testimony that suggests that they attempted to contact a service technicism to clean their dryor and/or ductwork and that it was performed improperly.

Knowledge and Behavior of Dryer Owners, Mr. Harontonnyan and Ms. Adamian

Mr. Harrectourpair and Mis. Adamtian purchased the Kaninote deyer at Scars on April 13, 2003 and bad it institled in their townhouse in Glendale, California, where they had lived since 1993. Ms. Adamtian testifies that she did all the leandry in the home and that she dried three to four loads per week. ³⁰ She testifies that she cleaned the lints terce after rice when 90 percent of the bads she dried. Mr. Harcutotungan testifies that although his wife was the primary user of the dryer, be used the dryer and eleaned the lint screen about two to four three per year. ³¹ Ms.

8 ngs. Ayres W.tal. 1994
 36 Reput of Alen Dortin, p. 5; ng. Acercicas Standard User's Inflormation Guide for Gas Furnaces (1902); Installation, Operation, and Service Mansal, Residential Storage Type Gas Water Reset: (2005); Toyres Cleary Owner's Guide (2006)
 8 Report of Alen Dortin, p. 5
 8 Abrill (21.5): 1000; Sacriton 1 22.8c
 8 Report of Alen Dortin, p. 5
 8 Haumonomyne, pp. 10-12, 21-22, 24; Admenian, pp. 11, 18-19, 36
 8 Administ, p. 567; Garonborryon, pp. 31-22: 48
 Administration, p. 26
 8 Encounterprise, p. 10-12, 10-22, 24
 9 Encounterprise, p. 10-12, 10-22, 24
 9 Encounterprise, p. 20
 10-22, 10-22, 24
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 12-22, 10-22, 24
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List of Marerials

Depositions

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- Mel Harcutounyan 10/21/11
 Alennosh Adamien 10/21/11
- e Larry Brown 05/16/11
- Complaint for Property Damage Glendate Fire Department Incident Report (Incident GLN0814580)
- Consisted Ciric Excipationess includent Acquirity (Industrial Vision Server)
 Kentroric Dryer Use & Care Guide PM 134191809 (0220)
 Kentroric Gris & Filectric Dryer Installation Instructions P/N 134199601 (0211)
 Operating Instructions P/N 134187400 (0210)
 Warning Indoit (IS 131824), Rev B; B 1317832, Rev F; B 1314637, Rev D)
- Check List (B 1317862, Rev A)
- Wiring Diagrams (134061500 R)
- Sours HomeCentral Repair Parts List P/N 134195500 (11/02)
- Report of Alan Dorris 64/27/12
- Report of Ronald Pursons & Michael Stodeard, Ir. 64/37/12, with Appendices I-V
- Report of Larry Brown 62/13/09 Color photos taken by Larry Brown
- · Purchase information from Sedewick CMS
- ANSI Z21.5.1-2002/CSA 7.1-2002. American National Standard FCSA Standard for Gas
- ANSI Z21.5.3-2002/CSA 7.1-2602. Amerinan Nadouni StandardCCSA Standard for Ga Clarkes Dayers Volume I, Type I (Indines Dayers, Claveland, OH: CSA America, DAYER 7.1, Gross, M. M., Wood, C.T., Harst, D. P., Boyer, R. R., & Robisson, J. N. (1994). What is a warning and when will it work? In K. R. I zughery, Sr., M. S. Wegulter, S. L. Young (eds.), Human fainters perspective on warnings: Salections from Human Fainters and Engineering Society annual meetings 1986-1993 (pp. 1-5). Santa Montaco, C.A. Human Factors and Engenomics Society of Salections (pp. 1995). CPSC Document 4 5002, June 2093. Overbeated clathics dryon on coase first. Retrieved on 03/97/2010 from the http://www.pcs.goa/engenophybo/s0022.huml Hall E., J. R. (2009). Human frees involving clathes dryon and washing machines. Quincy, MA: National Fire Protection Association.
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- Quarry, MA: Productive the Frontillan Prosociation.

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 Retrieved from http://www.constitutereports.org/cro/insgazinsurchive/2616/ijs/hoppilanes/diryers/everview/index.htm?efew=Print on 04/03/12.

 Product manuals for exemplar products.

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Adamian testifies that she does not recall the incident dayer over being serviced prior to the $\frac{1}{2}$

According to the testimony of Mr. Haroutonayan, he and his wife received a manual when they purchased the dryer, ²⁸ Ms. Ademina testifies that she did not read the manual or decements that came with the theyer prior to the fixe. ⁵⁰ Mr. Haroutonayan states that he read the manual and instructions but that he does not recall what they said about classing any part of the dryer, including the first screen and the chanus system, or having the dryer serviced. ⁴¹ In this instance, there is no testimony about whether Mr. Haroutonayan and Ms. Adamian motived or read the labels on the dryer.

Summary of Opinions and Conclusions

In summary, based on the information cited above and my education, training, and experience, I offer the fatlowing opinions with a reasonable degree of scientific certainty.

Warnings and sofety information about factors associated with dryer flees and cleaning provided by Electrolux were reasonable and adequate in series of location and content.

Sincerely

China Will

Christine T. Wood, Ph.D. Principal Scientist, Director, Human Esclors (650) 888-7194 direct (650) 328-8298 for ewood@exponent.com

idemino, pp. 30, 39-42 Karnstanss-en, pp. 24-25 Karonstonerjeu, pp. 24-25 (damism, pp. 23; 25 Asroutousyan, pp. 24-25

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- O American Standard User's Information Guide for Gas Furnaces (2002)
 Installation, Operation, and Service Manual, Residential Storage Type Gus Water Heater, (2008)
 Toyota Cantry Owner's Guide (2006)
 39 PR 38380 (1974), Federed union vehicle safety standards: Seat belt interface option
 39 PR 10272 (1974), Federed motor vehicle safety standards: Occupant creek
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 United States Public Law 93-492 (\$ 355), October 1974, Matter vehicle safety, U.S.
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- Department of Justice 93of Congress, Second Session.
 18. 2158 (2004). Standard for Electric Cluthes Przers. Underwriters Laboratories Inc.

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Exponent

Christine T. Wood, Ph.D.

Professional Profit

The Custom Wood is a Principal Scientist and Director of Deponent's Human Factors practice. She has spent over 20 years researching the impact of safety- and health-related information on human behavior and injury reduction. She has applied the area of human information processing, involving aspects of struction, learning, memory, decision-making, and behavioral response, to risk communications. She has investigated and identified factors that influence compliance with warnings and developed as resulting framework for preduting effectiveness. She has evaluated a wide variety of struciples for dissemination of warnings. Her work includes the analysis, evaluation, and developed as reading information for many different products, such as consumer products, motical devices and madications, workplace equipment, and mature whiches. She has also such and published papers on the historical use of warnings on products in the United States throughout the twentieth century.

Much of Dr. Wood's work focuses on issues related to child safety. She has applied he knowledge of clilid development to the enalysis of accident patterns that are unique to children. As part of her reserved, she has conducted numerous duties involving the testing of bondrods of children to better understand their maphibilities and methods of interacting with products. The results of her studies have been used in the design of products, development of product design streaders, and the evaluation of the child resistance of products. She hast also studied and analyzed the knowledge of powents regarding child hazards and the strategies they use to reduce child minure. child injury

Dr. Wood has majyard injury/iliness, adverse event, and accident data available from a wide range of sources such as those gathered by government agencies. She has used quantitative analyzes to develop and assess the effectiveness of safety information and dissonitation methods. She has presented quantitative analyses of accident patterns for individual produces to neglatory assencies for consideration in potential product reads. She has designed and collected data using written questionanties, interviews, and group discussions.

Prior to joining bapearent, Dr. Wood held research positions with componies RMC Research Corporation, SRA Technologies, Inc., and the institute for Mathematical Studies in the Social Sciences where she conducted studies in the areas of measuring the effectiveness of education and training programs and developing a federally-mandeted evaluation systems for education programs used nationwide.

Academic Credentials and Professional Honors

Ph.D., Experimental Psychology, Stanford University, 1974 B.A., Psychology, Stanford University (with Distinction and Honors), 1971

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Member of Editorial Board for Journal of Children's Health, 2003–2005

Professional Affiliations

- Human Factors and Erganismics Society (member)
 Society for Risk Analysis (member)
 American Educational Research Association (member)

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CONFIDENTIAL - SUBJECT TO PROTECTIVE GROER

EHP LARSON 073882

CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER

EHP LARSON 073883

List of Materials

- Depositions
 - o Mel Haroutounyan 10/21/11
 - o Alenoush Adamian 10/21/11 o Larry Brown 05/16/11
- Complaint for Property Damage
- Glendale Fire Department Incident Report (Incident GLN6814580)
 Kennure Dryor Use & Care Guide P/N 134191000 (0209)
- Kammure Gas & Bleetric Dryer Installation Instructions -P/N 134199640 (0211)
- Operating Instructions P/N 134187400 (0210)
 Warning lebels (B 1318241, Rev B; B 1317832, Rev F; B 1314637, Rev D)
- Check List (B 1317862, Rev A)
- Wiring Diagrams (13406150) B) Sears HomeCentral Repair Paris List - P/N 134195500 (11/02)
- Report of Alan Dorris 04/27/12
- Report of Ronald Parsons & Michael Stoddard, Jr. 04/27/12, with Appendices I-V
- Report of Larry Brown 02/13/09
- Color photos taken by Larry Brown
- · Porchase information from Sedgwick CMS
- Sears Protection Agreements brochuze, dated May 2011
- Extended Warranty Agreement Screenshot for Alexoosh Adamian
- Photograph of Scars "800" number by Michael Stoddard Deposition of Alan Dorris 05/05/12, rough and final versions

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Exponent' Pallure Analysis Associate

April 27, 2011

Serah T. MacGill, Esq. Riley Bernett & Egloff, LLP 141 E. Washington Street, Fourth Ploca Indianapolis, IN 46204

Subject: State Facts a/s/o Slabach v Electrofux Project No. 1103525

Dear Ms. MacGill.

I am writing to summer ize the work undertaken by Exponent® Failura Aradysis Associates in connection with human factors issues in the above-referenced case and the conclusions reached on the basis of work to date.

I received à Bechelor's Degree in psychology with Distinction and Honors fivon Stanfard.
University and hold a Ph.D. in experimental psychology also from Stanfard University. I am a Principal Scientist and Director of the Human Factors Practice at Exponent. I are involved in the analysis and evaluation of human behavior in response to information informed to change behavior and reduce injury rates. I have studied the men of funcan information processing including the specific context of processing safety information associated with products under various circonstances. I have written extensively on the topics of Faman information processing, actively information, and warning halfed evelopment. I have applied experimental design and statistics for the purpose of measuring the effectiveness of warnings. I am a number of the Human Factors and Exponenties Society, the American Educational Recently. Association, and the Society for Risk Analysis. A copy of my resume and my list of testimony for the purpose years a statuded. for the past four years is attached.

Background of Scientific Studies of Risk Communication

Over the past 30 years, there has developed a sizable literature on behavioral responses to risk communications. Significant reviews of and annotated guides to the literature for different periods and consent arose and to Fanal in McCarthy et al. (1984), Ayrse et al. (1994, 1998), Miller & Letto (2001), and Deloy et al. (2006). Key factors considered in the scientific interacture include the likely effectiveness of providing a warning about a particular habred (e.g., Deloy et al., 2006; Soumeral et al., 1989; Ayres et al., 1994; Arudt et al., 1998; Dorris &





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Sandy T. MacGill, Esc. April 27, 2011 Page 2

Perswell, 1977), labeling directives presented by regulatory agencies and in relevant standards and guidelines (e.g., Sala et al., 2019, Wood et al., 2006; Diedrich et al., 2001), relationships between the number of wardings presented and attention and memory (e.g., Chan et al., 1997; Decris, 1991; Prantz et al., 1999), the filesly effect of formatting and the inclusion of specific warding elements on compitators (e.g., Young et al., 2002; One et al., 2003). Wentherby et al., 2001), individuals' acceptance (e.g., Young et al., 2002; One et al., 2003; Wentherby et al., 2001), individuals' acceptance (e.g., Young et al., 2002; One et al., 2003; Wentherby et al., 2001), individuals' acceptance (e.g., 1996; Secument et al., 1993), the effect of media and publishy (e.g., Sounceral, et al., 1996; Secument et al., 1993), and the selection of hazards to warm book these of not he jakes potential impact, in terms of injury counts; nist acalysis, or accident mode analysis (e.g., McCarthy et al., 1995; Ayres & Wood, 1995). The significant body of literature to which those studies belong allows for scientific investigation as to whet, when, where, and how warnings could be provided and the likely impact they are to have on human behaviors. The results and evoluping base of knowledge have in some instances been incorporated by regulatory agencies with respect to safety intornation and has shaped specific guidance statements (Sala et al., 2010). Based on a synthesis of findings from published accientific studies, francoworks have been developed identifying factors that casts be present for a warning to result in reductions in harmful behaviors (Ayrea et al., 1994).

Based on the review of the supplied materials listed in an appendix to the report, I have the following understanding of the incident:

On the assuming of August 16, 2006, a fits occurred in a dryer on a residential property belonging to Kelly Slabuch in Elkhert, Indiana. None of the family members was injured.²

The incident dryer is a Prigidaire gas dryer, model PGR211AS, manufactured by Effectivities and sold in 2003. It is alleged that the dryer finited to contain adequate warnings or instructions with regard to a potential to mathematica and ignite a fire.

Bused on my review of ease materials and other information identified on the attached list of materials, and my education and experience, I have determined the following:

Warnings and Safety Information Provided for the Electrolux Gas Dryer

Rectrulux provided safety information about proper use and maintenance of the model FOR211AS dryer both on the dryer and in Electaire accompanying the dryer. The safety information identifying five-school the hazards provided by Electrolux was reasonable and adequate

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Survey T. May-Cittl. Exit. April 27, 2011 Page 3

in terms of its content, formest, and location. Many guidence documents for the content of warnings (e.g., ANSI Z. 535.4) suggest that warnings include identification of the hazzed(s), actions to take to social the hazzed, and the consequences of failing to take these actions. The safety information provided by Electrorius, charging identifies fire an apotential bacard and that the consequences can include higher or death. The safety information identifies numerous steps to be taken to rechoech the risk of fire. The importance of removing lint from the dayer and methods of doing so are referrated in numerous phases.

The earliety information is presented using commonly used formatting techniques that assist the reader in processing the information. Pechniques include the use of headings to organize the information into "churist" and the use of "signat words", i.e., WARNING, to indicate the information is related to safety. For example, in the form of fine former is did it is specious with the heading "important Safety Instructions" and several warnings that are distinguished from other portions of the manual by the inclusion of a safety siert symbol (a triangle surrounding an exclanation point).

Safety information is included in both the Owner's Guide and the Operating Instructions that accompany the dryer. Both sources of information instruct the user to read the Owner's Guide before using the dryer, and the Owner's Guide further instructs users to save the instructions.

The Cruner's Guide gives specific instructions on how to prevent five including the following examples:

- Clear the lint screen before or after each load. The interior of the dayer, lint screen housing and enhants duct should be cleared approximately every 18 results by qualified service presented. An excessive around of lint build-up in these areas could result in metiliciant striping and possible fire. See Care and Clearing, page 6.
 Do not operate the dryer if the lint secreen is blocked, damaged or missing. Fire hazard, overheating and damaget to obtain our occur. If your dryer has a drying rack, stways replace the lint serven when finished using the drying tack.
 ***Wenters example the obstant nearly and strongling areas free from the accountable of the country of the
- e-pures, no the sever when invented using the drying rack.

 Keep area around the exhaust opening and surrounding areas free from the accumulation of lim, dust and dirt.

Menuflucturers of many types of appliances (e.g., furnaces, water besters, refrigerators) as well as motor vehicles recommend that regular inspections of their products be excluded by trained professionals. Such a recommendation by Electrolux is consistent with this quactice.

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Sarah T. MacGill, Esq April 27, 2011 Page 4

Consumers are given further instructions on how to prevent fires, including not drying items that have been in contact with thermatche materials, not using that to dry items containing various materials (e.g., plastic, from robber, fasthers), and not somying say type of necessit sear the dryer? Users are instructed not to store or use flammable vapors and tiquids in the vicinity of the dryer. To the overer's Choice site notes that, "The districtions appearing in this Courset's Choice are not meant to cover every possible condition and situation that may occur. Common sense and contion must be precised when installing, operating and maintaining any appliance.

The Owner's Guide provides users with guidelines for "Drying Franceures", including the instruction to "Check that list accent is clean and in place. "In the "Care and Cleaning" section, users are instructed to "Clean the lint screen after every load," and are provided with instructions and a picturial on how to clean the first screen. "As in the "Important Safety mistructions evident of the guide, tuers are instructed not to operate the dryer without the lint screen in place, and to have an authorized carvicer clean the dryer every 18 months as "an excessive amount of lint build-up could result in inefficient drying and possible fice bazard." "I

Electrician also growled specific warnings on the inside door well of the dryer that would be visible to all twees ence they opened door to the dryer. ¹³ Following the safety alort symbol and the word "WARNING" was the information "To send fire bazard, personal injury, or fire damage—techning speciations combination" and instructions not to dry from rether or straight materials or articles that have been exposed to Baranable/contrastible liquide or solida. The label states: "Castion—A clothes dryer produces combinable in that are instead be exhausted between the straight of the str

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April 27, 2011 Page 5

It is recognized that lint accumulation within clothes dryers may result in firet. For exemple, the National Fire Persection Association (NPFA) reported that for home firet from 2003-2096, the most common factor contributing to the ignition of clothes dryers was the "fathers to clean." It has NFFA includes sovered stately tap in he report, including clothening the direct before or after used Sand Tho Consumer Product Safety Consumission (CPSC) has also recognized this problem and recognized that users of clothes dryers close the lint accumulation. The before or after drying each foul of clothes, to clean behind the dryer where fint can build up, and to have a service person clean the interior of the dryer drawsis periodically to minimize the amount of that accumulation." Appropriately, the warnings and safety information provided by Bloctroliax include said emphasize the concerns identified in the inalysis of dryer-related incidents conducted by the NPPA and CPSC and Bestroliax disseminates this information to purchasees of their clothes dryers.

Plaintiff's Claims of Need for Additional and Alternative Warnings

Rom Parsons and Michael Stoddard are critical of the warning system employed by Hectrobux. In their report dated February 25, 2017 they state that the warnings are defective because "it is forcescuble that the user may not read the manual." In making these animum, the authors are other customer of riguore a substantial Hierarthy related to making these animum, the authors are other customer of of ignore a substantial Hierarthy related to manuals. The purpose of a warning is to inform a user of possible negative consequences as a result of the user taking or fixing to take some entire However, as recarcil; into the effect that warnings and active information have on human behavior has shown, warning scanner motivate or force compliance. If the fact dial some users may not follow the safety information presented within an instruction or warning does not make that information "defective." The safety information contained within the Historioux Owen's Graide, Operating Instructions, and on the produce clearly communicates the need to proper institution and exhaust, the need to prospectively clean and keep the dryer free of lint, and to have nuthorized personnel clean the dryer approximately every 18 mostlus.



¹ Complaint, p. 1, 3; Oscio Fire Department report

Complaint p. 3

^{*}Complaint, p. 2; Invoice from Highey TV

*Complaint, p. 3

^k R.g., Owner's Guide, p. 2 ^c Owner's Cuide, pp. 2-3

Owner's Guide, on, 1, 3; Operating Instructions

⁷ Owner's Guide, p. 2

¹⁸ Owner's Galds, p. 2

[&]quot; Owner's Guide, p. 3

¹² Owner's Guide, p. 4 ¹³ Owner's Guide, p. 6

[&]quot; Ouzzor's Galdo, p. (

¹⁶ Label B 1117150 16 Label B 1317156

¹⁷ Label B 1317862

Tull, 2009

¹⁹ CPSC Document # 5022, June 2003

Report of Rein Parsons and Michael Streldard, p. 87
 Reg. Agrees et al., 1994

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Sarah T. MacCill, Esq.

Sunmary of Opinions and Conclusions

In summary, based on the information cited shove and my education, training, and experience, I offer the following opinions with a reasonable degree of scientific certainty:

Warnings and safety information about factors associated with dryer fires provided by Electrolux were reasonable and adequate in content, lucudion, and format and were not defautive.

Sincerely.

Church Wood

Christine T. Wood, Ph.D. Principal Scientist Director, Fhanan Factors (650) 688-7124 direct (650) 328-2981 fax смооффокрапант.соп

Enclosures (2)

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List of Materials

- Complaint
- Osolo Fire Department report
- Owner's Guide, Dryer
- Installation Instructions, Gas & Electric Dryer (P/N 134196100 (0211))
- Warning fabels:
 - о В 1317150 о Б 1317832
- o B 1314637 o B 1317862
- Oversing Instructions
- Invoice from Higley TV
- · State Farm's Expert Reports:

 - ne return's respect respect to the dated 02/12/07. CV
 Report by Skipper Shaud, dated 02/12/07. CV
 Report by Sack Sanderson, dated 02/17/11, CV
 Report by Scott Jones, dated 02/28/11, CV

 - Report by Ronald Parsons and Michael Stoddard, dated 02/25/11 and CVs
- American National Standard for Product Sufety Signs and Labels (ANSI Z535.4-2002).
- American National Standard for Product Sufety Signs and Labels (ANSI 7535.4-2002).

 2002. Cleveland, Ohioc CSA International.

 CPSC Decement 8 5022, June 2003. Overheaded distinct dysers are couse fires. Retrieved on 0.507/2010 from http://www.opec.gov/lepoqu/bytube/5022.html

 Ayres, T. J., Cross, M. M., Wood, C. T., Horst, D. P., Beyer, R. R., & Rebinson, J. N.

 (1994). What is a werning and whon will it work? In K. R. Laughery St., M. S. Wogalter, &
 S. L. Young (eds.), Human factors prospective on warnings: Stellection from Human
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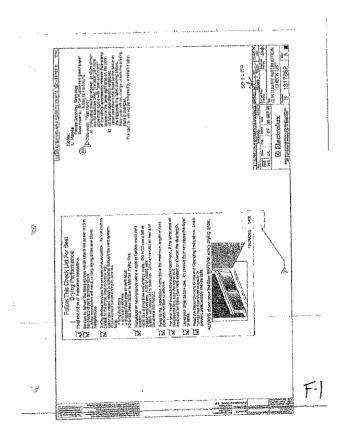
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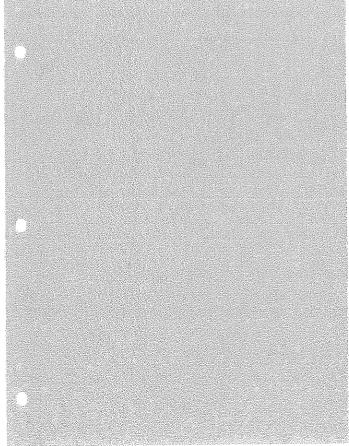
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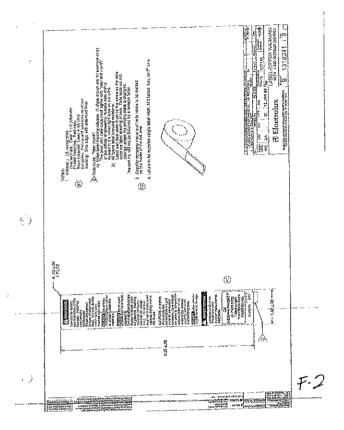
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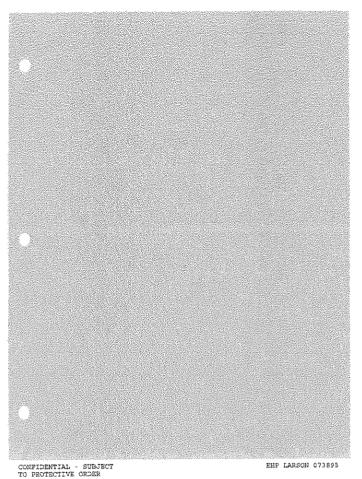
EMP LARSON 073892

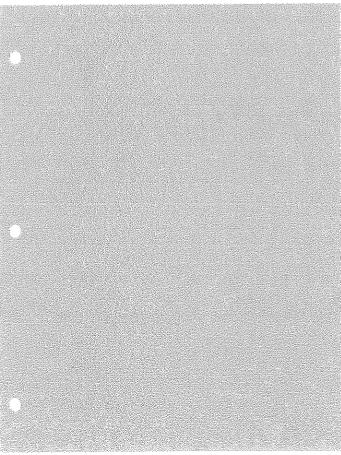
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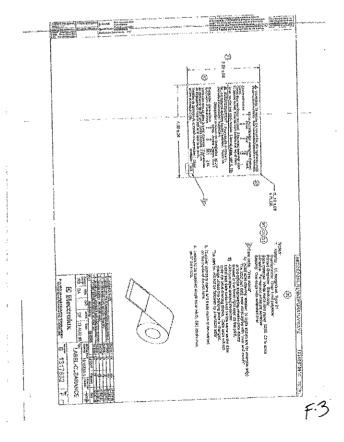


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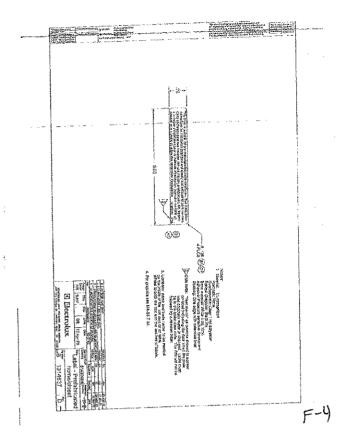


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EHP LARSON 073898

OPERATING INSTRUCTIONS Temperature Selection 1. Premie Bons for deing. imani the ubyes. If desteed, add a departments softmen storm. 4. Goso the diver door G

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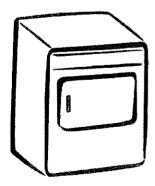


DRYER

Use & Care Guide

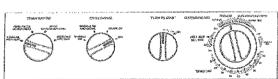
SECADORA

Manual de Uso & Mantenimiento



Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A. www.sears.com

PAN 134191000 (0259)



Cycle Selection (swime)

Automatic Dry Cycle

Data cycle produtes up to 88 minutes of daying dramat the temperature sofrecism of give stable

Energy Saving Tips





Table of Contents

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Drying Procedures	
Common Brying Problems	G
Care and Cleaning	7
Avoid Service Checklist	ij
Españal	
Service Sask Cove	5

Product Record

in the epace helbor, record the date of purenase, model and serial number of your product. You will find the model and social restain printed on a beninferation pittle located on the left cide of the door opening.

Model No 417...

Dryer Warranty
Full One Year Warranty on Mechanical and Electrical Parts
For one year four that dade of purchases, if this Dryer is installed and approximate according to the instructions in the Use
and Care Ouklet, Operating Instructions, and Installation Instructions, Sense will repeir or replaces any of its mechanical
or electrical period if they are of electrical installation instructions, Sense will repeir or replaces any of its mechanical
or electrical period if they are of electrical installation.

any purpose other than Private Family Use, all wastardy coverage is effective for only 96 days.

Warranty Service
Warranty approve is available by contacting your nearest Seara Service Center in the United States.

This warranty applies only while this Dryer is in use in the United States

This waitanty gives you specific logal rights, and you may also have offer rights which vary from state to state.

Sears, Roobuck and Co., Dept. 817WA, Hollman Estates, IL 60179

Master Protection Agreement

FIGURE 1 TO USE COLUMN AND EXTENDED AND THE CONTROL OF THE CONTROL

Presture a Muster Projection Agreement now and project yourself from greened herde and expense,

- The Matter Protection Agricoment also hope sevent with a fig of your new applicance. Here's white listuidad in the Agricoment is bepost conviced by our 12,000 protessional respect expectations. Here's white listuidad in the Agricoment is been convenient on the agricoment of the convenient of the con
- aar sensouring wer surge proteotion eigeliest electrical damage due to paerer flortualiens Has teleformoment it reputs et your covered product takes funger than promised

Once you punctions the Agreement, a nimite phone cell is at that I takes for you to schedule Ascelde. You can call dryitime day or signify, or schedule a service appointment unlike.

Scars that over 12,000 professional appeir specialists, with nave accessed in near 4.5 millions quality parts and accessories. That is the king of professionalism you can count on a fully profess due life of your new purchase for years to come. Purchase your Mester Protection Agrochisest boday!

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PHO LADRON 073902

INVESTIGE for your salety, the information in this measural must be followed to minimize the risk of fine or explosion or to prevent property demands, personal injury or loss of the. Do not store or use gasofise or other faminable vepors and Equido in the vicinity of this or any other applicance.

WHAT TO DO IF YOU SMELL GAS:

Do not to be failth any again glance.

Do not too failth any again eventual eventure and one to use any phone in your building.

Clear the room, building or not or did not specified.

Immediately entity our gas exposed from a majerbur's shore. Follow the gas supplier's instructors.

If you cannot read your gas exposed will fine depastment.

Installation was solvide must be parformed by a qualified involver, condox agreesy or the gas supplier.

Prevent Fire

Important Safety Instructions

Read all instructions before using this dryer.

WARRENG To reduce the risk of fire, electrical shock, or injury to pussons when using this dryer, comply with the basic warnings ficted below A Pailure to comply with these warnings could result in sortous personal

Prevent in the TWANNING Con and dry living that have been proviously classed in, or spotted with gussians, classing softwards, knowners, crucking oils, waxes, etc. On oil state these library and or near the dryer. Those substances give oil supposit that outforthis or supplied.

A WARKING
To proven the, do not use hast to dry items containing plastic, foam rubber or similarly textured nabber-like anakrikis, or items containing toathers or down. Use Air Fluff (No Head) only.

TWINNING Clean the last screen before or alter each load. The interior of the days, list screen sussing and extrusted that struct be desired approximately every 16 months by qualified service preserved. As exceeding amount of list fulfild-up in thace areas could result in institute not driving and provide for the County of the County of

Your safety and the safety of of your safety and the safety of

owards a very apparatus We have provided many important safety messages in the Use and Care Guide, Operating instructions installation instructions and on your spojiance. Always read and obey all safety messages.

This to the safety after symbol. This symbol diets you to hazards that can kill or hard you or others. All safety messages will be preceded by the codely alort symbol and the word "DANGER" or "WARNING". Those words mess

ADANGER You will be killed or sortously injured it you den't follow

A VANDER You can be tilled or sorbusty bijured if you don't tollow instructions.

All safety messages will identify the hazerd, tell you how to reduc the chance of injury, and tell you what can happen if the instructions are not followed.

Pedestal
A pedestal occassory specifically designed for this dryer may be used when elevating the dryer for ease of

Fallure to use accessories centified by Shernan, if schure could result in personal the manufacturer could result in personal injury, property damage or damage to the dryer. A MARKING Keep area around the extraust opening and surrounding areas free from the accomplished a first, dust and diff. A Walling Do not obstruct the flow of ventilating alt. Op not stock or place foundly or throw rugs against the front or back of the cryer.

MARKHING De not spray any type of aerosot into, on or cear dryer at any

AVARBING Do not use fabric softeners or products to offensate static ushes recommended by the menufacturer of the fabric softener or product.

The Patture to comply with these warnings could assuft in the, exploder, sortice bodily highly under demans to the rubber or please parts of the my

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This lise and Gare Guitte provides general operating histroclons for your dryer, it also contains information about features for several other

the this diver only as litistricted in this ties & Care Guide and the Operating instructions included with your dryer.

ENGINENT Avoid the backet or electrical shock. Do not use at strapite plug or extellation cord or remove gounding penging on stochical power cord. Fallers to follow this warming can cause serious ligary, fire or shouth.

ELECTRIC DRYERS:

FUSED SO AMP 120200 V OR 120200 V WALL FECEPTACLE DAYER SERVICE (XIRD

CORRECT Use this way ONLY GAS DRYERS

Grounding type



Note: The instructions appearing in this tiss and Care Guide are not meant to cover every possible condition and situeties that may

A PESTITIFE Do not allow children to play on or in the dryer, Closs supervision of children is necessary when the dryer is used near children. As children grow, beach linewishe proper, sale use of all appliances.

A WARNING Destrey the carron, plastic beg and other packing materials eiter the dryer is upposted. Cristiner interfat use them for play, Cartons covered with rugs, bedspreads or plastic sheets can become assignir chambers.

A WARRING Keep launchy products and challifered recol. To prevent personal injury, observe all warnings on product facels.

MEARINING Betwee the driver is removed from service or discarded, remove the driver door to prevent accidental entrapment.

Teakire to comply with these warmings could result in sorious parsonal

The prevent clock hazard and assure stability during operation, for dryn must be testated and electrically prounded by equation device person in accordance with food codes, installation instantatives are packed in the dryn for the Installat instance. Puter to INSTALLATION DISTRUCTIONS for detailed grounding procedures. If the dryn is moved in a new longton, have it checked and recreation by a quisitiest sorvice person.

TO prevent personal injury or damaga to the dryer, the electrical power-cast of a gas styre must be plagged into a properly grounded and polarized Spring utilet. The hind prounting prong must areas he smoved. Nover ground the dryer to a see pipe. Do not use an extreasion eror or an edgebur pipe.

MANUELS ALWAYS discennect the divertime the electrical supply before attempting any service or deaning. Faiture to do so can resist in electrical shock or highly.

A VARHIUS Do not use any type coray cleanser when cleaning dryer laterier. Hazardous fumos or electrical shock could occur. AVAINING To prevent injury, do not reach into the dryer if the dram is moving. Wait will the dryer has stopped completely before reaching into the

All repairs and services injury and damage to the dryer:

All repairs and servicing round be performed by an authorized services runess specially recommended in this Cornor's Guide. Use only extensional services are serviced to the control of the

A drawing limiter switch enformationly turns off the motor for the unbliefly event of an evertraged situation (electric dryers only). A service technician most replace the thermal limiter switch offer conceding the fault.

The Failure to comply with these warnings could result in serious personal

SAVE THESE INSTRUCTIONS

Drying Procedures

- Follow the guidelines below for preparing the lead for drying.
- . Rest the Operating Instructions care for operating your spec Always read and follow fabric care labels and laundry product labels.

[MAINING] To reduce the risk of the, electrical check, or injury to persons, read traportant Safety Instructions, pages 3-4, before operating this dryer.

Prepare items for drying. Dry pams of similar labdo, weight and construction in the same load.

- Separate dark itures from light-colored hams. Separate iterce that shod But from those that stract link if an item sheds link form it incide out. ent roth excess that arrest has it an earl arrest set, that a feature set. Be sure buckles, buttons and trim are heaptroof and world damage the drum finish. Close zipport, festion hooks and Valendi-like fastioners. The ortroga and sashes to prevent anapping and targing.
- the principal and seasons to prevent a longing and accounting a figurestable, temporises benieved one for even drying. One Check for stains which may not towe beomemoved in weathing. Diver held may permanently set some atakes. Repeat etain removed process before drying.
- Place small items in a most bag to prevent targing and tor capy



Follow fabric care takel Instructions.





2. Check that lint screen is clean and in place.

- Load the dryer.
 The average load will till the drum 1/3 to 1/2 full. Items read room to tumble feetly for even drying and loas winkling. Do not overload.
- When drying large liems, dry only 2 or 3 at a time. Fill out the load with smed and medium sized liems.
- For defloate or very small loads, add 2 lint-free rowers for better drying, leas wrinking, and to prevent groups staling caused by lab-ic-scaleasy
- Do net overdny kams. Overdrying can esuse wildsing, shvinkage, hardiness, and a build-up of static electricky, which can produce more
- If desired, add a dryer fabric softener sheet.
- Close the dryer door and set dryer controls (some models). See Operating instructions eard for your specific model controls.
- Turn cycle selector clockwise to the desired setting.

- Start the dryer.
 Tim the START know clockwise to ON. Molt for 1-2 seconds and reflects.
- release. To add ar namove items when the dryor is narring, epon the door. The dryor will always stop whom the door is operad. Allow the drum to come to a complain stop before reading inside. reconstant dryon, close the door then that the START kinds stackwise to ON. Hold for 1-2 accords and release.
- When the cycle ends, remove items immediately and hang or fold. If load is removed before the cycle once, turn cycle selector to CFF.

Cycle Signal Contirol (some models)
When the Cycle Signal Control to CN, a signal will sound at the end of each
cycle and during the WHINKE FRD setting (some models). The volume is
advantable on some models.

Drum Light (some models)

A dram Set will come on whenever the dear is operad to illustriate the dryor neuroduring loading and unloading. Closing the door name of the light,

Reversible Dryer Door

Your dryer acquiringed with a reversible stoor. The door can be hinged on the gript or the talk. Refor to the INSTALLATION INSTRUCTIONS for directions on changing the door.

- Drying Rack (some models)

 Be the drying rack to dry leans which should not be tumble chied.

 1. Open the argine rack to dry leans which should not be tumble chied.

 1. Open the argine that is the drying that the form but starter the fix of the first scheece.

 1. Instant drying and it is the drying than, Place the form but starter the fix of the fixed scheece that the first scheece the first scheece that the first scheece the first scheece the first scheece that the first scheece the first scheece that the first scheece that the first scheece that the first scheece the first scheece that the first scheece that the first scheece the first scheece the first scheece that the first scheece the first scheece the first scheece that the first scheece the first scheece that the first scheece that the first scheece the first
- bis. Learns appears on the price of the pric

Common Drying Problems

suits, poor sod and stain termoval, assidues of lint and soum, and fabric

PROBLEM	POSSIBLE CAUSES	SOLUTIONS	PREVENTIVE MEASURES
athing Chesky, chy	- निकार प्रजीवादा प्रोक्ति।	 Not fabets schener states with bar gusse. Rinse and rewash. 	 And a tent both towels to small loads for proper furtising. Some full-fishing schoold be air direct. Use proper drying temperature. Place tubric somener sheet on top of kill before smalling the dryer.
£bit	Overloading. Overlaying causes stell- eticationy. Int series not clear, when cycle began. Lint is stached to "pass."	Produce losst size and revenish unity input facts softened in the first days. On, add a lattice softened most and unotice without heat. Use that brush or roller to remove that.	 Do not ovarious dryer. Use Sobie softener in weeker or dryer to reduce static electricity. Remove items when they are supply demp to award overdrying. Check that list coresn to deen and in place.
Pitring (Pibers break off, bell up and ding to labric.)	 Piliusg is resemble with synthetic and permanent provide latrice. This is due to attested from normal water. 	Use a lim imust or shower in remove pile.	 Uso Euloric softance to inforcate fibers. When trouble, use appray starch or falcitic saids on exitars and selfs. Turn items hadde out to reduce abrasian
Studyiding	- Querdiying.	- Irraversible ponditing.	 Fallow labels care label directions. If smithting is a consum, cach kind dies. Hamove thoma white adjusted damp and hang or lay fat in complete degree. Black high into shape.
Wrinkfing	Overloading Leaving bons in dryer after sycle ends.	 Reduce load size and turntle at medium or low heat for 6-10 minutes. Remove items impactable. Hang or tred. 	 Во гот очентва от уст. Реточе выта ин воит им путо очен.

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CONSTRUCTION - STRUCT TO PROTECTIVE ORDER



Care and Cleaning

[TYPENDED] To reduce risk of Size or sendous injury to persons or property, comply with the basic warrings listed in Important Safety Instructions, pages 3-4, and those listed below.

- Before cleaning the diger laterior, unplug the electrical power cord to evoid electrical shock hazards.
- De not use any type apray cleanser when clearing dryer interior. Hazarcials firmes or electrical shock build occur.

- Inside Clear title lint screen after every load. Lint butch up in the screen receiring ser flow, which courses longer drying times. The screen is hostered at the bottom of the door copietry. Remove by putting stringint up. Remove the first.
- Occasionally a visity build-up may form on the list screen from using dryen-udded false's expense sheets. Yo serrows trais build-up, weals the hird screen in worm, acopy water. Dry thorotophy and replace. Do not operate the dryen willout it to this screen by place.
- If the dayer dura becomes stained from nunctionast fabrics, clean the drum with a damp circle and a mild liquid household cleanser. Remove cleanser residue before drying the next load.
- Every 18 months an authorized services should disan the dryon valsinot inserter and activated due. These areas can called that and dust over time. An oxpossive amonth of Shi build up could result in inefficient drying and possible first-tracted.

- cteen the cabinet with mild scap and water. Never see horsh, gritty or
- If the cabinot becomes stained, clean with diluted chloring bleach [1/2 cap (120 mi) in 1 quart (.SS liter) water). Place several times with door water.
- Premove give recidus from topo or labels with a mixture of warm water and mad deterpent. Or, touch residue with the aticky side of the tape or label.
- Before moving the dayer, place a strip of cariboard or thin therboard under the front leveling logs to prevent chimage to foot.

Sefore calling for service, review this iso, it may seve both time and expense. The list includes common occurrences that are not the secution detective work-resistance motivates in this dise Avold Service Checklist POSSIBLE CAUSE SOLUTION OCCURRENCE thate more the play the Egicly in wall called. Electrical power cord is not secur plugged in or plug may be knose. Rosel shoult breaker or replace tuse. Figure fuse blown or circlet breaker Make suns electrical line is nel overloaded and the diver is on a separent direct. Out sufficited service person for orplacement. Themes Smiler sipport There are 2 house faces in the diger circuit, 8.1 of the 2 house is blown, 8% drown mac turn and the facult are will are Roctaca fund Check to make sure supply valve is open. See INSTALLATION INSTRUCTIONS for procedure, Gas supply valve is not open (gas SAN INSTALLATION INSTRUCTIONS Diver does not have enough air exapty to support the burner fame (gas made): LP gas supply lank is empty or there has been a willly intermulian of natural gas igns models). Dryer phouse heat when utility service is restored. Make sure all that has been removed from the dryor line screen freigns starring much cycle. List screen is closued with int. Drying cycle takes too teng, outside crihe dryer techs too but ac smelle but Extraorst duct mater be at least 4 inches in triamoter and model of right or fixable metal. ton eved aktemetisper zouh hauer se mus When in place, the dust must have so more than two 60° bands and must not exceed length listed in INSTALLATION INSTRUCTIONS. Chydng lime will be 20% longer than drying on in 240 voti circuit Enotife dryer is connected to a 208 voli Dryfny procedures have not neen tokowed. See Drying Procedures, page & Cutside exhaust head or exist may be clagged or restricted. Use a dehumidifier near the dryer. Dayer is overloaded. Do not eventrall. Sea Drying Precedures, page 5. Excessive winking. Perceya kema as soon as cycle ends. Same left to dryer too long. See Drying Procedures, page 6. inguitidant soding of items. Equips tetrio pare label necuclions. Drying isosperatore too high Abyays receive tersign objects from packets before laundaring. Plamove objects from druin and rested dryer. Scratching or chipping of the Foreign strates such as coirs, one, constructions.

or buttons are inside the diver. Permanently allocited items such as bell landdes, zippers and hatevers may be lating the insite of the chara. aryse, it may be soccuracy to basto a scrap of meterial socurely excurse accessments before dying to prevent scratching and damage to the dryte. firms decaye caused by foreign objects or persuaneatly ettached tems is not covered by the warranty.

Registro de producto Índice INCRUE English
Registrosperposto.
Registrosperposto.
Central pasa in a sociotor ta.
Central p Hegistre en la pane reservada a combinación la techa de compra, al referero de mocelo y el número de serie de ou electrodomisados. El cimaro de motelo y el número de serie están inscribións serier una plana de identificación ubicada un la pada impulenta de la ciudiura de la patria. Númoro da mestelo: 417. Fochs de compre: No de serie: Guarde entan instruccionas y su baleza de compra para faistros referenciass. Garantia para la secadora Garantía completa de un año para las piezas mecánicas y eléctricas.

Por un año dende la lectra de compta original, al esta consdera se instale y opera do acuerdo con las instrucciones dol
filorante el Uso y Mantenimiento, las listrucciones para la Operación y las listrucciones para la Indialection, Seass
reparad a recentigación contempulares de sus plezas mecánicas o eléctricas en caso de que niñas están orifectorosas debido
a material o a mano de otra. mestracción de las gerantità. Si se open esta tecadora para un coo distinto al uso doministico de una sola tambia, toda la cobertara de la canantía, co discible peta solamenta del disc. una garranta. evicio bajo la garantia porigase en cortacto con el más cercano Centro do Servicio Saas en ica Estados. Esta garantia se aprices únicemento mientras esta secadora estó sicualo unado en los Estados Unidos. Esta granarità le change d'erechos logades especificos, y usted tumblém puode tener cance desenhos que varian de ten estado a des. Sears, Roebuck and Co. Dept. 817WA, Hoffman Estates, IL 60179 CONTRATOS DEPROTECCIÓN PRINCIPALES Lo fisicilareas per su sabila decisión do compta. Su espera electricitariste los (sections ba side die constitución sector. Pieto, el figuió que todos los producios, do sex os cuando puede noncette man as cuando un Comunta de Proposido fo puede ellorar promuparativos y cadros. Adminien um Contrato elle Pronección Principal ahora y protójiam contra incertidualizac y gassico lacoperacipo no de Empresión Pinasiani valamán le apera a preleogur na vide sal ocu an historio desdedembelha. El Cursiani deulge lui aquientes Sevalas Ademinin por superior. El 2007 prodesionese appedistables in liquiantesions. Sexulas presides allandares y preside de planta y reserá de charga por todos las repositorioses acidentes por el confinsio Clauminia de cardinismo - protoglamo del punidente bajo contrato si excurson ades de ties fallos tale proclam de charga madesa. tración. Plemples de su producto si el troducto beja confedo no pande ser organido.
Plemples de su producto si el troducto beja confedo no pande ser organido.
Perceia fuela del Mayatemidiator Presentero cuarso si unidan el mis del considerante
perceia del considerante del confederación del consideración del consideración del consideración del confederación del consideración del consid Una ver que used la comprede si Cuntras, polamente necessa, ero lla ració por leficion por fly en incha del censio. Puede llemer a cuestado fora, Cuesta el día o en la ración o puede ligia la fación por, el confecio o titudo de la compositoria. Gaziele e el se e en secución puede que la cua que secución en que se en consideran en que de 4,5 influens de pistud y accessivo de celápsi.
Cale estrá tipo de proteción-sideran al que includ pistud encuela para protect que la testa tilo de su trans electrodición de midiadirecto de midiadirecto.

Exiden destina limitaciones y accidentes.

Exidentes y remove información.

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EMP LARSON 073909

EMP LARSON 073907

*** ASVESTERIA** Para su eggundad, siga la información contenida en este mañasi pera statigidar el desgo de incendio o explación o para evidar dados materiales, leciones personales o la hacuta.

- No guarde ni utilice gasclina hrotros vaporos y liquidos inflamables en las cercanias de este o cualquier otro
- electrodoméstico. QUE HACER SENOTA UN OLOR A GAS:

- No mate de ancondor ringún alectrodoméstico. No trapo nimpla interputor eléctrico; no use nimpla festigan de su edificio. Haga que todo intrusto sigla adouent, estido a feres. Usans invastistamente al proveptor del que traste el teléforo de un recino. Siga fas instruccionas del Usans invastistamente al proveptor del que traste el teléforo de un recino. Siga fas instruccionas del
- Travendor del gran. Si no passas ponietae en contacto con el proveedor del gran, Santa si los bratilares. Gallony el servicio del provincio pur un intralacion reparcisado, una agencia de entralas a elemenacion del gran.

Hemos proporcionado maxima recrezios importantes para la seguridad en les instrucctores de Operarión nisi Marcell de Uso y Montesinheito, las instrucciones de lastalación y en el misera aparato. Sempos les y obselucas tutos los reconogles para seguridad.

Este símbolo significa obela. Este símbolo fo alorta acerva de proligros que pueden enviar o testorar, tarto a ustad como a circa personas. Tedos los menuejos de seguificad surán praceciados por el atritado de alerta procedidos por el atritado de alerta

A POLICERO DANGER (PELIGRO)

ACCUMENTATION WARRING ACCUMENTATION USED DUCTO GOOD OF THE STREET STREET, STREET STREET, STREE

Todas los mensajes de seguridad lámblicarán el pellaro, le didas a usted cómo reducir la pocibildad de lesión y fambién que puede suceder al no se siguen las instrucciones.

Pedestal

Pedestal
Un accesario del pedestal disaño
aspecificamente para esta secadora
puede an utilizado al elevien la ecudura
para la faciadad de emption.
La falla de Utilizar ios accesarios
centridados por el fourcame poole der
lugar a deños comportibe, a cindiomateriales, o a didio a lib ocadora,
nomos en los EE.UU.

Instrucciones importantes para la seguridad

(NAPPERTISTA)

Para reducts of risego de impendic, descargas eléctricas o lesiones a las personas durante el uso de usa secarias, cumpla con las edirectencias básicas que se criumeran o combinación.

A El insumplimiento de estas advenencias pande causar lesiones personales

PARQUENTEZION No soque pinguna prenda que trapa son languado, remidada o mandente preciamente con glasalira, selecionida de Brajalera, secesiva, acetiva de motivo, censo, etc. No grande estas productos adolpri el estas tela seccións. Estas existencias amáses visporos que precidera encendoras o exposer.

*** TADMENTALE Para prevente of speciatio, no use cafor para secur premise que contempas platico, porte espurida o materiales tipo combo, ni prontita que contengan plumas o plumón. Use la praduzación de "Air Full" (sin calur) solaración.

is players 14.

"MANUFAMERICAL for prosp is sensestors on furnishments of its replice para-policious exist historicals, distribute el in oddi colorada. Proctio convir un ristopio o foscordio, on optimizante stambiento o facilio el las provistas (3) sur sensiciost tanton un estares para naturcio, va civio sempre a cotoco in 1786 porti preferate cuando trami de usar el commo para recordio.

ADVESTERCIA starzenge el área productor de la abattura de estida y les árreas adacemente librar de acomisáción de bisissas, polico y sucledad.

ANY SET SECIA. No costruya di piazo dei sino de vertifición. No apile ni coloque erma o exiombriga Logita la parto dellardigra o trasora de la secución.

ADVENTANCIA No recis ringen tipo de aerosel despo, sobre a cerca de la secretaris de niegón exemente.

ADVENTANCIA No use suprigrates in pronucina para element a singlificial and stream auto to recomberge of fabricants dal substitution a del producto.

El incumpéraiente de celas advestendas puede traer como extenduarios en inspectar de explosión, tras explosión, teciones emporales graves y/o deños a los pieses de extento o de plástico de la secocoria,

†O

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Proteiz a los niños

Este Mariant de Usor y Mantanioniento le ofrene instruccioras generales para la otización de su secuciona. Temblio opisione información cubria la certanionista da error modifica. Puede son que su secución en todas plosa live candeledisticas que su incluyen aquí-Process a los simos.

"Interferences de comercia que los niños judgosen oncerno de o vientro de lo escribios. Debe vigilar de como a los rificio extendo la secadara está elembo asada en presumeja do niños. Cuendo estos crescos, presidente de seo correcto y seguro de sofre

*** TOTAL MAN Transplan la caja ne cantón, le tovan de plástico y las demás explanários de crevia una vez que binya descrimatada la sociatora. Los eficis pocatan susanto para lugar. Las cajas de carán lascuse o un Bondara, pochas o tojas de platico poderá comentra en ou formata framédicas.

ANNUMENTAL Manusega todas las productos de issando fuera del alcanos de los ofice. Para evitar las teniones persentales, sigo hoños en adventis-cisa da las originales de los producios.

PLOVERTIENDIA Anteis de rotitar la secución de servicio o describarla, suque la pasaja de la secución a para exter que algalen quado atrapado.

T la laccompliation to de estas advanteradas por de caucar histories personaliso graves.

Fulta legiones

the uncode a lan doscerges efactions. No use an adaptation of an october described in the controller in suppose to controller in suppose la dayle de brand de funt oci cabbe efectation. El no sopie setta esperante cab esperante

SECADORAS ELÉCTRICAS

RECEPTACIA O RUPAL CON RUSSILSS DE SO AMP 10230 VOLTICS D 120208 VOLTICS D 120208 VOLTICS RECAPORA

MANERA CORRECTA Usese as (SOLAMENTE

SECADORAS A GAS:

MANERA CORRECTA

Usasa asuSOL AMENTE

Nota: Leo incrundratas que aparcean on que Manual de Leo y Margadiridente no prolation estada tradas las condiciones y situaciones posibles que pueden courie. Deba lamares sentido común y audição al institer, oueras y pranterar conjugidos abordos articolos presidentes conjugidos abordos abordos.

fig on its, sequent confunction the sequent generalization the second could be be the second the could be second to the terrando set as each time.

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EVITA Electionos

Antoentetikoth
Pierra evita el franchismaniero. Ils escentina elebariticas y gatantificat la
establicad covarior el franchismaniero. Ils escentina eleba el indeticas y connectas la
establicad covarior el franchismaniero. Ils escentina eleba el indeticato considerato in controlambia financia coloque
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PACUERTENDIA: Peur ovidos lesitiones porsonatós o datinos a la econdora, el mále-cidadicio de las secuedora a plas detre oputar circil displo en un lompocomiseia u del displo-polarizarion y enche de fierra electricada, fila deble secuerar planche la civiliza de televra. No unaneste ramo ca la luma del discris a uma truberfa de gas. No use un catrio de ortense l'én civil an deparador.

Traum de Nacer Qualquier manterenhanto o lampleza. Si no lo hace, pueden ocurrir

ADVERTIENCIA: No use ningúe himpiador en vapor seco cemisto ámpio ol intento de la companio de la media descripció en vapor de la companio del companio de la companio de la companio del companio de la companio del companio de la companio del companio de la companio del companio del companio de la companio de la companio del companio

ANURATESCA Para exitar lesionos, no meta la mano an la secatora mierresa el rechor será sea movimento, Deje que el tembor se detenga consectamente autos de

ANY ANY ENTER A Thurs culturing the personal of street y dialious in excation:

Tools has expendedness y all conviolendings and street whom a callo port in ferridor autorizand a mentio age so recomband in brothetic on cate haruse foll Missario. Les addisenting places de impurised autorità ablis par le taurie. No modifique has confolos.

No modifique has confolos.

No modifique has confolos.

Pur insplace of grande la descatione an un lugar a la felempetée.

Il in disjusted de aegunideri apage et motor automáticamente en el caso pocu-probate de que ocurre un addressamente (uncerecco advancac advancac), un decisios de curvicio deberá cumbiar al degunitor de segunidad describó de tertar composito de dispusso.

El lacurapionierdo de estas advertencias poeco caucer lesiones personales graves.

GUARDE ESTAS INSTRUCCIONES

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secado

Eige tas instruccionate da la etiqueta de la prenda.

Coloque les prondes poquofas en un saco de púella.

- Procedimientos para el « sigurios puesos que se indican a continuación para preparar la carga de regal para
 - el secado. Les la larjets de instruccionos peracel Funcienandento para sélizar su modrio.
 - especítico. Los y siga siempre las aliquetas pera el cuidado y socado de sus prendas,

[143/VERTECIO Para reducir et rieugo de incendio, descenças eléctricas o locicios terrapadelles, los las instrucciones importantes para la Seguridad en les icatorius piireonsilie, isa ille libbituociane: póglisso 18 y - £1 untes do punor la sacad

Prepare la ropa para el secado.

- apreus na trupta parte en Statereus.

 Boccon las prendate de logicas, previos y confecciones sinfésires en la misma cargo.

 Segmen las positidas occurinos en los prendas cienas. Separa las principa que ecolum polya a de las que atroco portues. Si una prenda cuelta polya.
- sections polyce de las que entrers private. El una previda cuedas publicad, acciónque de introdución polyce de la previo de la constitución de la
- con di Bradou, in viero aligunas manoline. Repita el proceso de cerransular un cocado Cobepse las prondas pequeñas en un seco de mala para evitar que se errecten y para secritas cun refe hacifecto.
- 2. Compruebe que la rejilla para pelusas esté limpia y

- COLDEGIGA en su lugar.

 3. Liene la seccadora.

 Le cuap promode forest el tambor a un terdo o la entad, Las provides nesestan espacio para monyele filiatirento para estimpia un secució necesión estado para en convente filiatirento para estimpia un secució cuadro terror en comprese compresentes, sociou estado e 6 el en le viz. Demprisé a curpo sor provides pequiorises y modernas, en Para comprese deficiadas o sur propuestas, antada 2 (sedas sin potatas para ubrenos un majos sociado, estamon enugar y pora entre las manerias de praes casandados por las relações do estadora, consolvo puede a cuarse filiados de consolvos que en cuarse cuarse consolvos que que provide podos portados por las podos ences encuentes de la estadora que provide podos consolvos que que provide podos consolvos que provide podos consolvos.

 Si so decesa, antada uma noja de susevirando.

- Cierre la puerta de la secadora y coloque los controles de la secadora (algunos modelos).

 Ves la tarjais de Instrucciones para el fancionamiento para los consoles especificos de su modelo.

5. Gire la perilla del programador hasta la posición deseada.

- Ottre la peritta del programation maste la positional desendra.
 Ponga la sociationa en marchia.
 Gio la paritta de pueda en marchia en eureleo de las aguales del tolaj lascata position de encoedide (COS). Masterga duranto 1 d'a segoratica y existe. Pera attación e acuardo presendra de la compositional del compositional del
- Cuando se termina el ciclo, saque las prendas inmediata-mento y cudiguelas o dóblebas, el ceda e capa seine de que sentre el cide, giro la pedia del programador hasta la probión de aprapdo como el cide.

Características

Control de la Señal de Ciplo (algunos modolio).

Cuendo la Beñal de Ciplo (algunos modolio).

Cuendo la Beñal de Ciplo está en la posición (ON (ensemble), una señal sonará al road de ceda ciplo y cuando el ciplo voltes periodopado en cefor lasya vida señacionada (degunos modoleo). El relitamen es ejustablo en argonos modoleo.

Luz del Tambor (afgunos modolos) Una huz se prenderá rada vez que la tippa de la secudora sea abienta, para liberibur of lambor dustatta las operaciones do carga y descarga. Centranto la posita se apagan fa laz.

puerta de equipulo le sur.

Puerta Reversible
Sus secadora esté equipada usumana puerta riversible, Las basagras puedencolo carsa un derirolle a la laticolavida. Ventra INSTRELOCIONES FARA LA
INSTRE ACKON peris saber como cambar le pasona.



INSTALACIÓN press subrer chimo carrièra l'estatora.

Partilla do Sacadio (algunos modelos)
Les la partilla do sacadio (par predicto que ro cidan que visitados...

1. Abra la tapa da la sesacida y removem de sitro di polano.

1. Abra la tapa da la sesacida y removem de sitro di polano.

1. Abra la tapa da la sesacida se la marter de secució. Ubeque la berra did fronto discontratora de predictora de la partilla de secución de la predictora de la predictora

Problemas comunes del secado

	hán y Detergente. CAUSAS POSIBLES	SOLUCIONES	MEDIDAS PREVENTIVAS
Länneträ sioellosois o proplantas	Paged conditions do tribs.	Frobe has memories dis sintricanes con ann bacis de partire Expregie y servina a deven.	 Aggregate de la constante de trada parte entrete possibilités, porte possibilités para possibilités, porte possibilités para possibilités para possibilité réport l'article les la depuis de situation de la constante porte de la constante possibilités de la constante del la constante de la constante del la co
	Emple at intrac at other. • La petama setá larida a "reolsa".	- Herdance la parge y musiem n favori quo acto maximor for logicito est est attimo enfolosces. - O régregios unes toute est toute color O régregio este acto toute color O laye un people o coeffo menocentre de poisses para figureres la relativa	Also independant to considera. "Only consideration and landed on all condition being consideration and landed on all conditions are considerated to capture electronistics. "Electronist law provider for the electronistic country is solved each light stratument bitmedical, paper create of solved electronistics. "Convoice not all fibro strapt polytics asks floriging yet to law inter-
Apillamiruso retra de Sivias, lumisación de substración o la substración o la hilo	reises caso ravelenida elo fioras sonericas y pienelvedo	Due in organ is actioned pure pulsas para ransver rose tomorron.	Des Symmonis por laboras ha Shina Deschi di Glorchero rocks altroffir il accenticionado te taja, en mundia y porte. Des visita los promites para reducir fa societado Des visitas los promites para reducir fa societado.
Krzogłas	• Comanistic needs)	· Extu contribit on danversho.	Charanne ha inclinationer para et calcicula en les entegrates de curies pressos. Sit et recorgisto en mas pronospession, somition el secondo a melimeta. Sit est promises botalista lagramenta l'émedias planations les premises botalista lagramenta l'émedias allegant les premises botalista la la foressi miglioni. Discharates la premise highan a la foressi miglioni. Discharates la manastrica para completar el sistemio.
Arragas	Carges may grander.	- Reducte el tamento de la carga y vicine à tempolatura inacta per 3 a 16 minutes.	Ne schillourges la stepatora. Pramusest las prosocial lan pranto dotto el ción

Delia las previats en la companyo les previats que de constructe en ciulo.

Cuidado y limpieza



Limpin in rejija para pakatus desnoše do reste casto.



ADVESTIBILIAL Para reducir of rieogo de impendio o letiones graves a posponas o metadoles, cumpla cun las advedances blaicas enteneradas en instructiones importantes para la seguridad en las piginas 10 y 11, y las que se provincia en configuração.

- Aures de limpter el interior de la secertora, descoueche el cable aléctrico para eviter riesgos de descratjus electricas.
- No use pingén limpiquin en vaposizados coasdo imple el Interior de la secadora. Priedes desprendense vapores paligrando o producirse concentado.

BITO!

Elypia la riejitia para pelasosa disepatés de radas caspa. La courrulación de peluses on la rejitis lleinte of puece de atro, lo que hace que insistempos de secado seas mité migos. La rejitis se entranceira can barrella rejute de la puerta. Sequinis juliando hacida antiva. Sequin des pelanos y vuolva, a colocar la rejitis puerta.

- De vez en okando pulede formiarse une appraulación de para behan la rejilla causada par el uso de hejes de susniciane en la senadora. Plara elimbar esta cantilicación, laber a rejião pera perbasa en agua, pictoricas y calabilo. Selepulas bies y usulvia a celeconia en se hojar. No penga la seceluloria en calatino sin la rejião para policias en se hojar.
- Ei al Jambor do la cacadarn fore mandras de 1932 de calaces, l'Aspiele con en paño himodo y un Propahogus llaudo escure. Eurque el residen de limpiecor antes de socar la siguiento calgo.
- Cacha 18 mesca un téomico do sentición astandamento nicho limpion al Interfan de la empetua de la secución y el conducto de satilita. Estas áreas practica estandar patosas y polvo con el lismpo. Una candidad escasión de poissas parade catasar un accado deficiales y un posible relegio de leconida.

Exterior

- Limpie la, envolute des un jaipin sueve y ague. No use nunce impliadores disperos, granufados o abrastivos.
 - 8) la envoluza se esanche, fimple con lejfa dilude JS taza (126 ml.) en i nuerto de galón (0,85 l.) de aquaj. Erjatagna vantas socues con aqua impla.
- Elizabre el restallor de prepartento de la olica el fue adquistan con una mezala de agua calenda y distrigiado susum. O bion, curpo el restalan cara el lado postáncio de la cinta o eliquella.
- Antes de mover la secuciora, oubque una tira de cartón o lámine delgada de libra debajo de las pates delestanas nivoladaras para evitar delivar el piro.

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EHP LARSON 073914

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Avicade emphésiss

Arginess o denegonarillado

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For in-home major brand repair service: Call 24 hours a day, 7 days a week

1-800-4-MY-HOME**(1-800-469-4663)

Para pedir servicio de reparación a domicillio - 1-800-676-5811

In Canada for all your service and parts needs call __1-200-665-4456 Au Canada pour tout le service ou les pièces

For the repair or replacement parts you need:

Call 6 am - 11 pm CST, 7 days a week

PartsDirect*

1-800-366-PART (1-800-366-7278)

Para ordenar piezas con entrega a domicilio - 1-800-659-7084

For the location of a Sears Parts and Repair Center in your area: Call 24 hours a day, 7 days a wook

1-800-488-1222

For information on purchasing a Sears Maintenance Agreement or to inquire about an existing Agreement:

Call 9 am - 5 pm, Monday - Saturday

1-800-827-6655



The Service Side of Sears

Evitar ilamadas de servicio

PROBLEMA

La sederiora sa pone en exerchy pero na callenta.

Antes de Comar para obtendi servicio, automini esta lista. Pueda shomelo lliempo y difutro. Esta llista incluye los problemas bomunes one no en el realizado de una fisializació a maligicipio difericipioso de esta esculdas.

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Anagúreso de que la área eléctrica na esti solminarquista y do que la accusida que sis por un circulto repetado.

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Company in goods with the do entrada acid ablants. Ver the DISTIRTOR STRES PARA LA SHETALACE ST part exten observ

La secretura detorá ancar porndo registivo di acministro de gasi. Assertimente des harbon qui àtado los prisones de la rejita pela pello se de la sociedad singio de comentar cada clein.

El conducto de suida debe tener como mánico 70 cm (4 pulgadas) de didenero y debe pater hecho do resustrigido o lissãos.

El production ver communication on the control territor on the control territor on the control territor on the control territor of the control territo

namentos carca da la assentiona.

No la approcaquis. Ven est Procedimientos para el autado en la página 19.

Surpia instituto

риле ти. В 1855 рискалих был ресект покто останов вейского.

Vice los Procedimientes papa el secento ec la périos (2). Sigo las Sistracciones de la elliquete de la proceda

Los daños al tember cellados por espetos extraños o molescripas parmenentes no están cublistes por la gara

CAUSA POSIBLE

fit updale exicultion to note bien exphiritado o el encelada palada natur finga.
El residio de la coera se ha función a el dispositor y el ha decaralla.

ils dispunice de segusidas para la morperatora se las dispuesto. Hay 2 landwar contextificas en et abours de la senantana. Si 1 de los di funibiles se ha landido, el fundos purole ginas pero el calendados en funibación.

La viduoja da eskrado de gas no essé sistemb

No se ben a supido los requisitos para el contrato de sellón.

La secuciora elécuira ceta conscreta a la

esquita da 200 yaldes. No se francegordo las procedimientos de securio.

Parities of the State of the St

Les prendes se han dejeub Jernes and simple en la sectobra.
Distributio feculatione de les prendes.
Temperature de sectobra de les prendes.

Autesados permanentos apiec habilitas de ardumosas, transillares y clamas pretim i golpozado el interio del territo.

Page: I Bocument Name: untitled npj28405 - 16 Alenoosh Adamian 06/02/12 WPS - Itom Agraement 18181291-9663 Loc: 1 ET: Ndse desc: DRYER, MENNORE GAS WRITE Serial # : X031407374 Model 6 : 41793142200

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To view another agreement, press F10 or F11.

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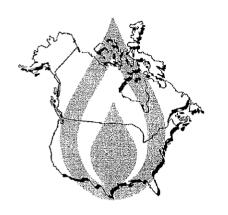
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AMERICAN NATIONAL STANDARD/CSA STANDARD

FOR

GAS CLOTHES DRYERS

Volume I - Type 1 Clothes Dryers



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The control interpurses only two terminals or lends, the interchange of which does not change the operation of the control.

1.18 MOTORS AND BLOWERS

See Exhibit A. Lems Unique to the United States and Exhibit S. Items Unique to Canada for provisions covering motors.

Mistor, blower or fan bearings shall be either (a) permanently lubricated as (b) provided with accessible means for lainfeathen. The removal of screws in access punels shall be comishered acceptable. Also sen 1.22.7 h and 1.23.8.

1.14 LOADING DOORS

Louding duous shall be substantially retoforced so as to prevent warping.

Looking dozers shall and show horskogs, perminent defloction to damage its any part thereof when subjected to a load of 50 permits (22.7 kg), uniformly applied for a period of 5 minuses without impact along the top edge of swipt type dozers when perpendicular in the plants of the face of the days, or along a trip 6 to knot (180 mm) wide and the full midth of drup dozer which type in the horstowerst position, equiditional from the hinges and the mate edge of the door when person. 1.15.2

Seeing-type dears on the drying chamber shall be equipped with a means to hold the dear cleard. Swing-type dears shall also comply with 2.17, Duor and Catch Test.

The dayer shall be provided with means for exhaust duct connection. Dayers shall be provided with a sufrable order that will accommodate standard duct material of integral inch size. 1.20.1

When a intracesen is provided upstream from the subanit duct collar, the for screen shall be restilly removable or easily accessible for cleaning without disconnecting the extensit duct.

USI INSULATION

When insulation is employed, it shall be uniformedy packed and provided with protection to prevent shifting, deferioration from excessive last, and context with rotating parts.

Thermal insulation shell be causifiered as an electrically dead metal part and shuft he reliably speech from electrically live parts in accordance with the applicable spacings precised in Exhibits A. Hense Unlique to the United Stotes and B. Hense Unique to Causada.

1,22 INSTRUCTIONS

Par depera sold in Canada, also see Exhibit B, Items Unique to Canada.

11

AMERICAN NATIONAL STANDARD ANSI 221,5,1-2002

Third Editton - 2002

This Standard is a revised egition of the former Standard for

GAS CLOTHES DRYERS Volume 1 - Type 1 Cichtes Dryers ANSI 721.5.1-1999 - CSA 7.1-1995 and Addenses And 221.5 1a-1808 - CSA 7.1a-M95 ANSI 221.5.18-2501 - GSA 7.16-2021

IGAC

Published - May 2002

Convelent & 2002

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Instructions shalf be reviewed by the testing agency for comparisonsibility, accuracy, and compatibility with results of test and with the Visional Field Gas Code, ANSI 2223 LAVEPA 54 or the Camedian Natural Gas and Propess Lindalistics Code, CSA BLEGS.

lustractions for the proper installation, operation, and maintenance of the dayer may be provided as separate manuals or combined as one manual. Each manual provided shall coinstructions to retain the manual for future reference. 1.22.1

Type I hossebold devers shall tockede: 1.22.2

a. Installation instructions:

Operating instructions; and c. Maintenance instructions.

1.22,3 Type I commercial dryers shall include

a. Installation instructions; and

b. Maintenante instructions.

The first caver or the first page of the manual containing the operating instructions shall bear the following beard warming. It shall be boxed as thoses:

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() [1.22.6 The invisitation furtruntions shall include: WARNING: For your safety the information bethis manual must be followed to minimize the risk of five or explosion or to prevent property damnge, personal injury or death. Assembly instructions for field-installed parts and components, including all case and accessaries (when applicable). Statements full certing: The Installation must conform with local codes, or in absence of local codes, with the National Fuel Can Code, ANNI ZZZR LPAPA 3d or the Canadian National Gae and Propose Installation Code, CSA B149.1. Do not store or use gasoline or other flame while vapors and liquids in the vicinity of this or any other anglesons. The dyer, whos installed, most in electrically generated is occardance with local codes, or in the absence of fiscal todas, with the National Electrical Code, ANSIGNETA TR, or the Gaussian Electrical Code, CNA C22.1. - WHAT YO DO IF YOU SMELL GAS To not try to light now appliance.
 Do not louch any electrical switch; do not use any phone in your hallding.
 Clear the room, building or area of all nocumals. The dryer must not be installed or stored in an area where it will be expressed to empants. supplies a plant of the gas supplies from neighbor's plant. Pollow the gas applier's instructions. Departs installed to residential garages must be elevated 18 links (16 cm) above the floor. Note: If the manufacturer specifies that flux duyer must not be installed in a residential gavage, this choose is not required. installation and service must be performed by a qualified installer, service agency or the gas supplier. The dryer must be secured in the structure, and methods for installing securing means provided with the appliance. () The factors used for the boxed sourcement above shall be hold-faced type backing a minimum uppercase letter height of 0.126 inch (3.6% non). The minimum vertical spacing between these of type shall be 0.046 inch (1.3% non).* Lowercase fetters shall be compatible with the uppercase letters shall be compatible with the uppercase Note: This applies only to deyers requiring securing mount to comply with 1.2.8. Clearances from combustible construction. Adequate clearances for servicing and proper operation. The frant cover or the first page of the installation instructions for a Type I commercial deper-Provisions for adequate six supply and adequate clearances for an openings into the condustion chamber. A note instructing the purchaser to post in a prominent location instructions to be followed in the event it:e over smalls goz. The information to be posted shall be obtained by consulting with the local gas supplier: Dimensions of required combustion and vestilation air openings in clear doors. Note: This applies orde in drows suitable for installation in a close The following "Fur Year Salety" exciton, with a note instructing the purchaser to post this contion in a prominent beating: 10. No other fuel-burning appliance shall be installed in the same closet as the dayer. Note: This applies only to divers suitable for installation to a ridset. FOR YOUR SAPRITY Combustible sinterials, gasoline, and other flumenable vapors and liquida must not be stored scar the dryer. The dryer must be discussed from the gas supply piping system during pressure testing. * This intercludght and Societies correspond to 12 point ages Proper exhaust installation, indirecting the type of exhaust duct, where applicable, and including the following statements: 13 Revised: Nonfember 2002 CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER THE LARSON 073923 Labrication of moving parts (when applicable), including type and amount of labricant. (Also see 1.23.8.) ()The dryer shall not be exhausted into any gas vent, chimney, well, ceiling, or concealed space of a building; and Periodic examination of exhaust systems The dryer must be exhausted to the oxidaors Source for replacement parts Exhaust duct must not be connected or secured with sureys or other. fastening devices which extend into the interior of the duct. Keeping dayer area clear and from turnium title materials, gamine and other floorable vapors and liquids. 14. A V_0 inch NPT minimum plugged rapping, accessible for test gage connection, must be installed immediately upstream of the gas supply connection to the dryer. Keeping dayer area clear and free from items that would obstruct the flow of combustion and ventilation air. A vent fine must be installed from the regulator vent to the autduors (if applicable, see 1.14.2). 1.22.9 Also see 1.2.8 b, 1.14.3, 1.23.3 through 1.23.6 and 1.23.8. 16. The following wording or the equivalent: "WHEN DISCARDING OR STORING YOUR OLD CLOTHES DRYER, REMOVE THE BOOR." 123 MARKING Dryers suitable for installation in a mobile home shall contain the following additional benefits to instructions: 1.22.1 Morrising material shall be identified by class number and chall ness the following specifications. At metal marking materials shall be reciproof. All nurkings shall be strictle for opportunition to marking spous which applied. The dashguation of any class of marking shall not predate the use of marking of a lower mander class. That the installation of the dryer conform to the Minnahamed Home Construct and Safety Standard, Tible 24 CiVs, Part 3289 [formarly the Federal Standard for Mobile Home Construction and Subay, 17th 24, HOD Wort 2809, or Standard Class I. Integral Marking Means available from the manufactures for socare attachment of the dryer to the structure (see 1.2.12), Marking that is emissed, east, stamped or otherwise busined in the part. Tols includes markings baloed into an examplical surface. Class IIA-1. Permessent Plate Exhaust ducts must be securely factored to a approximately parties of the mabile home structure and must not terminate beneath the parties home. Shafi be made of metal having a minimum thickness of 0.912 inch (6.30 mm) and shall be securely affacied by mechanical means. Multile lume extenses his part monther if available from the manufacturer, or testructions for the appropriate type, size, and insimilation of the dust. Provisions for introduction of outside sir into the diver room. The free area of any opening for the introduction of outside air shall not be less than twice the area of the diver exhaust outse. Shall be made of netal having a thickness of 9,598 to 0.512 inch (0.15 to 9,35 ma) and shall laye mechanical attachment means at all corners with a maximum spacing of 5 inches (152 mm) between mechanical decleners. Operating instructions shall include information, clearly molecular doble, for the sofe use and operation of the dayer. The operating instructions shall contain statements indicating the following wording or the equivalent: Cisas HA-S. Permanersi Plate Sirall be made all metal leaving a Dirichteen less than 0.006 lach (0.15 mm), Such plates shall be attacked by metals of nonwater-schulde skillandra which will comply with 2.13. Marking Material Adhieston and Legibility. These materials shall not be bound on surfaces having temperatures exceeding 100°F (110°C) as determined during conduct of 2.14. Wall, Place and Cesting Temperatures. "Do not allow children to play on or in the appliance. Close supervision of shildren is necessary when the appliance is used over children." Maintenance instructions shall include instructions for all maintenance torended to be performed by the user, including reconsuctated frequency guidelises. Maintenance instructions shall facilities, but are not thrided to: Class IIA-4. Permenent Plate Shail be made of pressure-sensitive metal full requiring no solvent or activator, provided such plates camply with 2.18, Marking Material Adhesion and Legibility. These materials abail act u. Citaming of tim screens (when supplied). Revised: September 2002 15 Revised: September 2002

Type of gas for which totiod: Nat, Mid., Alic., Propuns, I.P or _____ Bio I.P gas air mixture; and the type of gas for which equipped: Nat., Mid., Mib., Propaus, I.P or _____ Bio I.P gas air mixture thail for indicated).

Bio I.P gas air mixture (the heatlag value for the I.P gas air mixture shall be indicated). be located an surfaces having temperatures exceeding $308^\circ\mathrm{F}\ (149^\circ\mathrm{C})$ as determined during conduct of 2.14, Wall, Floor and Ceiling Temperatures. \bigcirc Shaß be made of meterial and advarsally effected by water, their be estacked by meass of nonwater-eduble addiestic, and shall comply with \$1.9, Marking Meirceld Adhesion and Legglilly. These uncertals salls the be lacated on sunfrice shring temperatures exceeding 300°F (149°C) as determined during conduct of 2.14, Wall. Floor and Celling Temperature. Maximum permissible gas supply pressure (_"wc). The value lessabed in the blank shall be the same as the intreased inlet lest pensoure specified in Talike V for the type of gas for which the appliance is certified. Minimum permissible gas supply pressure for purpose of input adjustness when the dryer is equipped with a gas appliance pressure regulator. Shaji be mazde of materiai noi achversely affected by water, shaji be attached by means of monwater-soluble adhestor and shall camply with 2.19, Marking Material Achesion and Laghidity. These materials hall not be insected on succious particular exercising temperatures and the first (19.8°C) as describing damped across before 17.5°F (19.8°C) as describing damped consider of 2.14, Wall, Flows and Cading Temperature The monufacturer's input rating as follows:
"Input ___ Btult (___ IW)" Electrical variage - voltage, frequency, and total input in susperes as follows: $V_{ij}^{a} \sim V_{ij}^{a} \sim$ Class IFIB. Waterproof Marking Shall be prizzed directly on the part with waterproof onaching not adversely affected by a temperature of 155°F (155°C) and shall comply with 2.10. Marking Material Adhesion and Leightilly. Tide marking shall not be used on surfaces having temperatures exceeding 175°F (155°C) or determined during centilest of 2.14, Well. Floor and Celling Temperatures. identification of this standard by indicating rither this edition of the standard, or the must recent effective addentia thereto, with one of the following nearkings: ^ANS Z21.5.1 - CSA 7.1-(year) Clothes Bryers, Vol. I;"
"\$AS 731.5.12 - CSA 7.1u-(year) Clothes Bryers, Vol. I;" or
"ANS Z21.5.15 - CSA 7.1b-(year) Clothes Bryers, Vol. I;" Class HIC. Watergrouf Label The last two digits of the year may be used to indirect the year of the standard or () Shall be made of material ant soluble to water, and may use water subtile atthesive for k. The symbol of the organization making the tests for compliance with this stan Class IV. Nonwaterproof Label INSTRUCTION PLAYE. A dryer widel requires more than the mean appearance of a simple cannot external to the dryer to place it in service shall have clearly defined, legally and complete betweetness for highlings and shatting down the slayer on Clear III C marking material. These substructions also like located on or adjacent to the controlling device or in an equally conspications profition where the instructions can be usily read and neadly observed by the operator. Lighting instructions shall specify a 5 minute complete should puriod before the dryer is religious. Shall be made of material which may be soluble in water, and may use water-soluble adhesive for attachment messes. Class V. Printed Marking Marking shall be clear and prominent and may be applied directly by any printing means. RATING PLATE(N). Each dryer shall hear a plote or a combination of adjacent plotes of Class IBA marking material located so as is him easily read when the dryer is to a normally, institled position. A plate(s) which after removal of an access panel, without the use of tools, is satisfactory. This plote(s) shall include the following information: CLEARANCE MARKINGS, Each dryer shall hear a murking on Class IIIC rearking mesocial, located as specified in 1.23 2 or where widthe during basellation, studing the univitation determines from combustible conservations for the capital sides are the enhanced for controlled for the capital sides are the enhanced for controlled for controlled for the capital sides for the enhanced for controlled for controlled for the capital sides for uncleid to indicate closest installation requirements. The electronic between the content of the white it plants the enclosure and combustible construction, if other than zero, shall also be included. The manufacturer's, depley's or distributor's name and address. The manufactures's model number A distinctive number or numbers which will identify an individual dryon () () CONFIDENTIAL - SUBJECT EHP LARSON 073925 EMP LARSON 073927 TO PROTECTIVE ORDE () (3.2 mat) high which will be readily visible as the each are front, or from the front when the deser has is served. surface(s) requiring such dearance or where viable during installation, indicating the minimum distance required. F.23.12 Also see L2.8 a, and 1.9.2. A dryer for closes inotaliation shall locar a statement on Closs IIIA marking material, referring to the installation instructions for closes installation. This statement shall (3) he located as specified in 1.23.2, or (2) he visible during installation. 1.23.13 A cludies deper confident for domestic use in Canada with natural gas and propose and enswertible for the alternate gas, that from a Class III marking on an adjacent to the cultage plate to the effect as follows: "For use with natural gas and propose, a waverslan fit, as supplied by the interdiscience, shall be used in curver if the intert to the detracted fiel. Four utilization rives in get a natural of the proposes, the rouses do conversion four the part of the control of the control of the control of the proposes. The rouses do conversion four time part is followed attraction of the control of the co A chothes dryer equipped with securing means utilized to ecopyl with 1.28 shall beer a Class IV marking granulously located on the front or up of the elever coding to the effect that the installation is not complete until the dryer is exercised to the structure with the secondar means provided and that the installation instructions should be referred to for graper insulation. A dryer for demestic use which is also satistic for manufactured borne inetalliation (see 1.2.12) shall forexpostac on the rating plate, or one empirate nearting plate of these HIA marking masterial subjects in the rading plate, a permanent and prominent successor resulting to the effect that the dryer is also retailed for emministered borne Installation. He great random for the installation and exhaunt this are not included on this plate, a warring shall be incorporated to indicate the location of the installation and exhaunt the are not included on this plate, a warring shall be incorporated to indicate the location of the information. Any of the following may be substituted for manufactured being in the above marking: Mid home imobile humes: Manufactured (mobile) hours; Mid. (mobile) home; d. Manufactured home: or Still-thic instructions for lubrication of notor and blower or fan bearings, if applicable, simil be provided on a Class V marking either on the fan or blower housing or on surfaces adjucent to the speam of access. 1.23.3 PLECTRICAL DIAGRADIS. Each dryer shall bear a marking on Class IV marking material stating, "Gentions Label all wires prior to disconnection often servicing controls. Whing errors can cause improper and dangerous operation. Verify proper operation after newleing." 1 22.18 The dayer shall bear a marking, on Ches HiA marking material, isomed so as to be readily visible to the user when loading the dayer, on which appears wording to wars the user that: a. The dryer must be used only for water washed fabrics: and Heat should not be used for drying foam subber thems or similarly instored subbestike undertal. All dryers shall beer a Class LLA-2 lakes stating "This Dependent be Exhausted to the Outdoors" or equivalent wording. The marking class be in festers not less than 1/2 last. \bigcirc ()

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HOME FIRES INVOLVING CLOTHES DRYERS AND WASHING MACHINES

HOME FIRES INVOLVING CLOTHES DRYERS AND WASHING MACHINES

John R. Hall, Jr. March 2009 John R. Hall, Jr. March 2009





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Abstract

In 2003-2006, there were 15,350 non-confined house structure fires per year reported to U.S. fire departments whose cluthes dryers or washing machines were the equipment involved in ignificate, with associated annual larsess of 16 civilian deaths, 433 civilian injuries, and 2501 citilian infect property demage. Dryers alone accounted for 92% of these fires and all of the reported deaths.

These estimates are based on data from the U.S. Fire Administration's (USFA's) Notional Fire Incident Reporting Systam (NFIRS) and the National Fire Protection Association's (NFPA's) another for department experience survey.

Keywords: Fire statistics, home fires, clothes washer, clothes dayer.

Acknowledgements

The National Fire Protection Association thanks all the fire departments and slote fire authorities who participate in the National Fire Incident Reporting System (NFIRS) and the annual NCPA for experience survey. These firefigities are the original sources of the detailed data that make this analysis possible. Their contributions allow us to estimate the size of the fire problem.

We are also greteful to the U.S. Fire Administration for its work in developing, coordinating, and maintaining NFIRS.

For more information about the National Fire Protection Association, visit<u>www.afpa.org</u> or cell 617-770-3660. To Jean more about the One-Strip Data Shop go to www.nfpa.org/ords or cell 617-984-7443.

Copies of this analysis are evaluable from:

National Fire Protection Association Chec-Stop Data Sirop I Batteryzuineit Fark Quiney, MA 02169-7471 www.nfps.crg e-netil: 0:0006@ffps.arg phote: 617-984-7463

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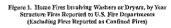
Clothes Dryers and Washing Machines

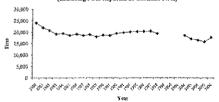
In 2006, an estimated 17,700 reported U.S. non-confined or confined home

In 2006, an estimated 17,700 reported U.S. non-confined or conflued borne structure fires (not-long infolios dryers or weaking mactimes (fleuholding combination washer-dryers) resulted in 15 civilian desths, 360 civilian injuries, and \$194 million in direct property damage.

Washer and dryer fires were mostly level from 1980 to 1998, with only a slight decline in the first years of the period to break the pattern. After some vehalfully dring the transition years an NFRS Vereins 5.0 was introduced, the estimates have satisful into a row lovel trend lower from the lowest lovels of 1980-1998. Civilian lighters have stabilized in e range comparable to that seen in the 1994s. Direct property damage after adjustment for inflation is varying year to year but around a generally higher average then those seen prior to 1999. those seen prior to 1999.

In 2006, clothes dryers and weaking massignes accounted for 4.3% of all reported turns structure fires, 0.6% of associated civilian deaths, 2.9% of associated civilian injuries, and 2.3% of associated direct property damage.



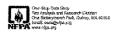


Motor See Note us year table.

Source: Date from NEDES and NEPA survey.

Most (92%) home fires involving washers or dryors involve clothes dryers

1 NiPA Fires Analysis & Research, Quincy, MA





Clothes Dryers and Washing Machines Fact Sheet

In 2006, an estimated 17,700 reported U.S. non-confined or confined home* structure fires involving childres dryers or washing machines (including combination washer/dryers) resulted in an estimated:

- 15 civilian deaths
- · 360 civilian injuries
- \$194 million in direct property damage

Leading Items First Ignited in Non-Confined Fires Involving Clothes Washer or Clothes Dryer, 2003-2006

Dryer	Fires	Washer	Fires
Ctothing	30%	Wire or cable insulation	29%
Dust, filter, or list	27%	Appliance lousing or casing	23%
Unclassified soft goods or clothing	16%	Drive or other best	18%

- . Most (81%) non-confined home structure fires involving washen or dryers began in a laundry room or area.
- Most of these home fires involve clothes dryers (92% in 2003-2006).
- The risk of fire is slightly higher for gas-fucked clothes dryers than for
- The leading cause (25% of fires) of home clothes dryer and washer fires was fallare in clean

"Homes see diversings, displaces, menufactured homes, spectreess, tow-ficuses, randomies, and

Estimates are derived from the U.S. Fire Administration National Fire Insident Reporting System (NF)(IS) Vetable S.O and NFPA's unwait fire department experience servey.

NFPA Fire Austysis & Research, Quincy, MA. Home Fleor Involving Clothes Dryses And Washing Mochines, 109

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in 2003-2006, washers and dryers were involved in an estimated \$4.50 home structure fires per your that were reported as confined fires. They and about 10% to the average of non-confined fires. The largest share of these confined fires was for contained reash fires:

- Consisted trash fire (24% of foral reported confined home structure fires involving wester or dryer).

- Confined to fuel burner or boiler (23%),

- Confined to cooking wassel (13%),

- Confined to chooking wassel (13%).

- Confined to incinerator (77%) was
 Confined to commercial compactor (8%).

The confined flue fires are the ones that make the most sense for this kind of equipment. The contained truth or rubblish three make sense if "trush" is understood to include lint. The contained fresh or rubblish three ranks sense if "trush" is understood to include lint. The contained for the trush of the contained with its driver. The charce corall include examples of raising equipment and designed for clothes drying (cooking vessel, inclineating as a makeshift clothes dryer, More likely, those esteppines are plan have been used because there is no code first dryer, but there are two codes for equipment used to lead the contents of a compartment or enclosure in the originatest. The description first as clothes dryer, even though the purpose is not cooking or indiscription of the contents.

Table A. Home Educa involving Washers or Dryers, by Type of Equipment Annual Average of 2003-1006 Structure First Reported to U.S. Fire Departments (Auclinding Fires Reported as Candines Fires)

Eguipment	Fires		Civesas Destites		Civilisa Injuries		Direct Property Osmage (In Millions)	
Clothes deyer Washing machine Washinstyper sombination	15,490 780 570	(92%) (4%) (38%)	16 0	(100%) (10%) (0%)	493 17 46	(92%) (4%) (4%)	\$196 56 \$6	(94%) (3%) (3%)
Total wester or dayer	16,810	(1000)	16	(100%)	435	(130%)	5223	(1(32%)
New: Telescape participal actionship	effication	povice us to t	Entitle	igad fire dep	eksamen	sa and en co	which firm repar	and subt to Fodora.

Super. Existina MESS Verion Super NEPA survey.

The risk of fire is slightly higher for gas-facted clothes dryers than for electric-

The ratik of thre is ungany angular many and the properties of the

Home Fixes involving Clothes Dryons And Washing Machinus, 3709

NEPA Fixes Analysis & Research, Onincy, MA.

fission dryers were 3.6-to-1 and 3.4-to-1, respectively. The ratio of usage being higher than the ratio of thes implies a slightly higher risk for gas-lucted dryers.

then increase a tree surprise a surgent region test for gen-increasing in the manalysis could adjust for differences in other risk-related characteristics of users of the two types of dryers. For example, the relative usage of electric-powered dryers is considerably greater for some high-risk groups - next communities (106-to-1) and the South region (13-5-to-1) - and leaves for some low-risk groups, such as the West region (2.0-to-1). In other words, the coveres of electric-powered dryers are disproportionately located in regions and in sizes of communities where the overall risk of fire is above average. If the estimated fire risks associated with electric-powered mad gas dicted dryers were adjusted to reflect these post-quiry-related differences in fire risks of the dryer cowers, then the slight estimated risk advantage for electric-powered dryers would be re-estimated as a somewhat larger risk advantage.

In 1995-2003, there were an average of 1.4 electrocation deaths per year involving

In 1995-2003, there were an average of the U.S. Consumer Product Safety Commission, which old not report on product related electrocation desits for 1999. In addition, clothes weather sociated for two electromation densits in 2000. In 2003, clothes washes accounted for two electromation densits in 2000. In 2003, clothes washes were part of a larger group, with no separate results by type of equipment, that together accounted for two electrocation deaths.

In 2006, an estimated 24,330 fajuries involving clothes dryers and clothes washers were reported to hospital emergency rooms.

Unlike civilian fire injuries, those injuries were more likely to involve clothes washers than clothes dryers. The feeding types of injuries were statins and sprains, facentions, and centusions and abrasions. These types of injuries neight be expected to occur when trying to move the appliance, when the victims falls on the appliance, or when the appliance falls on the victim.

Table B. Injuries Involving Washers or Dryen

	True of lapary							
Tatal	Steala or Speala	I.ecomeson	Cantoniou or Abrasion					
19,516	4,206	2.620	2,500					
7,760	3,339	Y,490	1.219					
21,330	7.130	4.116	3,430					
	19,5% 7,060	Straig Testal Ort Spreads 19,576 4,256 7,260 1,370	Total or Speak Lectrodos 13,576 4,660 2,620 7,260 1,330 1,890					

² Individual Approve of the Franci States 2017, U.S. Cennus Harses, 2007, Testa 966; Aven ann Alexang Survey 1978, E.S. Department of Commerce and U.S. Experiment of Excelling and Orbert Development, Fully 2-5.

Home Fires landsing (Pobos Depart And Hashing Machines, 3109

3 NPPA Pires Analysis & Research, Quincy, MA

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- Also, remove accusudated lint around the drom. Do not operate the dryer without a lint filter.
- Periodically check while the thyer is operating to make core that the sir exhaust vent pipe is not restricted and the outdoor your flap will open. Clean lint out of the vent pipe once a year.

To remove a blockage in the exhaust path, it may be necessary to disconnect the exhaust duct from the dryer. Reasonbor to reconnect the dusting to the dryer and outside vent before using the dryer again.

There are long, thin brushes one can hay to make it easier to reach and remorbing the vent pipe and around the drum. There are also dryer lint removal

Hove a qualified service person clean the interior of the dayer chassis periodically to minimize the amount of line accumulation.

- Replace plastic or foil, accordion-type ducting material with rigid or corregated semi-rigid metal duct. Most manufacturers specify the use of a rigid or corregated semi-rigid metal duct, which provides next manufacturers. The frashible plastic or foil type duct can more easily targ int and is more exceptible to kinks or crushing, which can greatly cade to the nirflow.
- · Pasure that a dryer is plugged into an outlet suitable for its electrical needs,
- Do not leave a dryer running if you leave the home, because if it maistantions, no one will be there to avert possible dissatur.
- . Keep the dryer area clear of combustibles like boxes and elething
- Have your dryer installed and serviced by a professional.
- Take special care when drying clothes that have been relied with volatile channicals such as gazoline, coucking oils, cleaning agents, or forishing oils and states. If possible, was the coloring more than once to minimize the amount of volatile obsenticals on the clothes and, preferably, hong the defence of the first possible with the course of the course o

IFome Fires involving Claikee Dryers and Washing Machines, 3/09

3 Well A fine Analysis & Research, Quincy, Ma

Failure to clean is the leading factor contributing to ignition ched for 1983-1986 non-confined bame structure fires involving washers or dryers (29%) and clothes dryers specifically (31%).

dryers specifically (31%).
Many offer leading factors involve mechanical or electrical failures or maffunctions with
little detail provided. Fire deaths often one burean-error factors, including failure to clean
(9 civilian tire deaths per year) and unclassified operational deficiency (4 deaths per year).

The item first ignited for 2003-2006 home non-confined violins dryer structure fires is likely to be something being dried or a byproduct of such an item (such as lind), while for home one-confined clothes washer structure fires, the first item ignited is blady to be a part of the appliance ireef.

The leading items for elether dryers include clothing (30% of fires and 26% of dwithin deathry, dust, filter, or lint (27% of fires and 31% of dwiths), and unstantified soft goods or obthing (10% of fires). The leading items for elether weakers include wire or cable insulation (29% of fires), appliance housing or casing (21% of fires), and drive helt (18% of fires).

Most (81%) 2003-2006 non-confined home structure fires involving washets or dryers began in a laundry troom or area. (Their leading areas of origin included garage (3% of fires), crawl space or substructure space (23%, and kitchen (2%).

There is no direct strifistical evidence of a home fire problem involving dryers and aportaneous heating of volt goods impregnated by flammable or combustible tigrids.

The fires of comman occur when flammable or combustible liquids are absorbed by solf agoods like towels, are not completely renaived during wealthing, and then become part of adoxyed ignition of goods bested by a clobest depter. If the pile is impressingly, and if the goods have certain physical properties, then it is possible but heat with indid up inside the pile faster than theat is not to the currounding also. There is, is associated with large piles of goods, stone characteristic of a long commercial or institutional family than of a home, and the risk is also increased if the dryer cycle is interrupted before completion of the cock-down person of the cycle. Culty 15s of home dryer fires began with the ignition of flammable or combatable liquids and a side analysis showed only 0.2% of home dryer fires involved a chemical reaction or spontaneous heating as the host source.

Clean the list filter in a deyer before or after each use because accumulated dust and list our be a fire hazard.

If ctolling is still damp at the end of a typical drying cycle or drying requires longer times than normal, this may be a sign that the little screen or the extinued duct is blocked. §

Overlanger allabor dryen our case proj. CPSC (Incurrent MEET), U.S. Conserve Product Salety Continuous, Ventingen, 197, partners for 200.

House Fires Imadeing Clothus Deputs And Woohing Machines, 37,9

4 NITA Fires Analysis & Records, Quincy, MA

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drying, do not leave the dried clother in the dryer or piled in a laundry backet 17

- It is important to keep dryers in good working order to avoid problems associated with lack of maintenance and part failures. One dryers should be inspected by a professional occasionally to ensure that the gas line and connection are inlast and free of leaks:
- To help reduce electrical problems associated with washing machines and devers, make sure the right plug and outlet are used and the machine is connected property.
- Avoid overloading a washing machine or dayer and follow manufacturer's
 equipment care and operating instructions. This should help out down on the
 number of fires caused by parts breaking and leaks.
- Have a professional check the equipment if there are any doubts that it is
- Washing machines and dayers should be properly grounded.

¹ Rimse F (Leveling, 200) Shen traction standards with Economic Products, University 2004, Table 2, suggestions, and made to contact to the contact.

Stanning files fig Personal Restronct Injury Starrollower System (MIRSE), covered at the U.S. Communer (Volum United Committees of West Committees of the U.S. Communer (Volum United Committees).

⁵ Development student depart can cover files, CPSC Provincent BMS2, O.S. Company Fraction Safety Options of the Machineton, PC, and and the CPC.

⁶ Ent refer milimation de litera de lite esculvidation, respecting, various of this, see Arber Lee, Cherick Clarks Department Lander Department fields Contained in Western, VC, May 9001.

^{*} Translations and the appearance proceedings, CFSC Continuent #4500, U.S. Conventor Profess Continuent, Westington-DC, continuent C

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Home Fires Insolving Clothes Dryon And Working Machines 3/00

⁶ NSPA Fires Analysis & Research, Onincy, MA.

Table I. Hums Fires Involving Washers or Deputs, by Year Structure Fires Reperfed to U.S. Fire Departments

		Civilian	Civilian	Direct Property	Daninge (iv Millions)
Year	Pires	Deaths	Injuries	As Reported	In 2006 Dollars
1980	24,100	7	380	\$38	594
1984	22,600	19	250	332	270
1982	23,800	49	330	541	\$85
1983	19,200	5 7	239	\$49	\$160
1964	19,400	7	270	\$60	\$116
1925	19,660	5	240	\$57	\$107
1986	19,100	17	240	\$60	\$110
1.987	18,630	25	340	\$56	\$99
1988	18,9GO	32	240	231	\$.20
1989	18,000	â	240	\$264	\$164
1990	18,700	24	290	\$83	\$128
1991	18,600	10	330	596	\$142
1992	19,500	9	400	\$78	\$3.12
1993	19,800	8	406	\$87	\$121
1994	20,200	6	400	591	\$124
1995	20,300	27	866	\$104	\$137
996	20,426	31	370	\$416	\$150
1997	20,500	36	430	\$128	\$161
1568	19,500	2.5	440	2100	\$123
1.999	19,500 (16,90		160 (199)	\$112 (\$112)	\$136 (\$135)
2600	15,500 (15,20		440 (440)	\$176 (\$17 6)	\$207 (\$206)
2001	18,3300 (16,91	8) 31 (F)	330 (330)	\$150 (\$150)	\$171 (\$171)
2003	18,600 (17,10	00) 50 (50)	430 (456)	\$180 (\$173)	\$202 (\$(94)
2003	17,100 (15,40		489 (476)	\$236 (\$256)	\$259 (\$259)
2004	16,599 (15,10		460 (466)	\$171 (\$171)	\$183 (\$182)
2005	15,800 (14,40		440 (440)	\$266 (\$206)	\$213 (\$213)
2656	17,700 (16,40	(15)	360 (366)	\$194 (\$194)	\$194 (\$194)

Note: - types of a precisioners certain dealered seam want has first reported as well-first of a few bosins or bolder.

Note: - types of a precisioners certain dealers or constant certain compared. Even a few expected to it profess controlled first section profess or the certain certai

Source: Data from NFERS Version < 1 (1989-1990) and Version S 2 (1999-2004) and from NFPA excess.

Hone Pires levelving Caukes Devers And Washing Mechines, 3189 7 NFPA First Analysis & Research, Quizzer, MA

Table 2. Home Fires Involving Washers or Dryers, by Factor Contributing to Ignicion Annual Average of 2003-2006 Structure Pires Reported to U.S. Fire Departments (Excluding Fires Reported as Confined Pires)

A. Clinther Dryers and Wathing Machines.

Pariot:	Pince			Civilian Denths		Civilian Injuries		eci Property ge (in Millions)
Faither to clean	4.45	3 (2946)	9	(55%)	93	(21%)	541	7 (23%)
Danksaified mechanical father or madimeters	3,64	(24%)	á				\$45	
Unclassified electrical failure or multimetion	1,150	(9%)	((0%)	15	(4%)	5.74	(30%)
Uniquedified short consist are	786	(3%)	Ċ	(0%)	35	(240)	510	(5%)
Heat sorem too close to combustibles	270	(5%)	Ü	(0%)	24	(6%)	\$15	
Worn out	775	(5%)	0	(0%)	14	(3%)	\$3	(15%)
Undersitied operational sell-densy	\$60	(4%)	4	(24%)	29	(7%)	\$12	(6%)
Automatic captes failure	536	(3%)	G	70%	5	(2%)	\$9	(4%)
Registers mattended	520	(399)	- 0	(69%)	26	(4%)	\$13	
Unclassified factor contributed to agolfton	514		3	(19%)	17	£49Å	\$6	
Insultation deficiency	480	(3%)	0	(0%)	13	(350)	\$10	(5%)
Equipment nyeroaded	490	(396)	0	(0%)	3	61965	83	CISÚ
Unclessified misure of material	340	22991	0	10%	14	(3%)	\$2	
Equipment not being operated properly	320	(2%)	0	(038)	15	(4%)	\$5	(3%)
Short oiresit are from defective or worn insulation	230	(356)	0	(0%)	15	(3%)	\$3	(150)
Are or sperk from specating equipment	220	(194)	û	(0%)	10	(2%)	34	(7%)
Loak or break	180	(126):	Ð	(034)	5	(1%)	11	024
Sheet circuit are from succlassical damage		(1%)	0	(094)	3	(1%)	83	(2%)
Absorbed or discorded material	120	(1%)	Đ.	(0.50)	3	(496)	\$8	(4%)
Ard from finisty resulted or broken conductor	50	(196)	0	(6%)	Ü	(9%)	\$2	(146)
Design delitiones	98	(1%)	0	(0%)	٥	(055)	\$1	(0%)
Other known factor	360	(2%)	ø	(0%)	3.5	(89.5	St	(694)
contributing to ignition				,,,,,	20	4- 14°		417-9
Yotal fires	15 350	£300%5	16	(100%)	433	(£00%)	\$261	(100%)
Total factor cetrics		(108%)	20	(124%)		([1254)		(316%)

Home Fires Involving Cather Depart And Washing Machines, 2009 8 NEPA Fires Analysis & Research, Quiney, MA

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Table 2. Honce First lavolving Westers or Dryers, by Fastar Centribusing to Ignition (Continued)
Annual Average of 2003-2006 Structure Fires Reported to U.S. Fire Repartments
(Excloding First Reported as Conflued Fires)

E. Clothes Dryers

Vactor		Pires		Civilian Dentis		ivilius rjuries		ser Property ge: (in Millious
Falluro so olean	4,324		9	(35%)	9;	(2259)	\$45	(24%)
Unclassified anotherized follow or mathematics	3.36	(23%)	4	(26%)	110	(28%)	\$46	(24%)
Coobsolfied electrical failure or mathinstion	991	(7%)	ĩ	(09%)	5	(2%)	\$10	(10%)
liteat source too close to	728	(3%)	0	(0%)	15	(6%)	\$13	(7%)
Unanguified short circum are	634	(4%)	g	(0%)	30	(676)	\$10	(256)
Work and	590		G				53	(2%)
Unclassified operational deficiency	SSE		4				\$12	(6%)
Automatic course failure	490	(3%)	a	(0%)	8	(2%)	\$9	(5%)
Equipment positionded	450		0		16		59	(5%)
Installation deficiency	478		ò		10		\$10	(5%)
Unclassified factor contributed a lenifica	460	(3%)	3	(1990)	17	(4%)	\$6	(૩૧ઇ
Figuritation overloaded	970	(3%)	0	(0%)	4	73%)	53	(2%)
Unclassified reises, of meterical	320		Ô		34		\$2	(196)
Equipment not being operated properly	300	(3%)	0	(D ⁶ 4)	16		\$5	(3%)
Short circuit are from defective of worn insulation	s 710	(2%)	à	(6%)	12	(356)	83	(1%)
Arc or sperk from operating againment	190	(1%)	0	(096)	6	(2%)	3.3	(2%)
Leak or totals	160	(196)	0	(0%)	6	(1%)	\$1	(156)
Short circuit are form mechanical demana	120	(1%)	Û	(0%)	*	(196)	\$3	(2%)
Abendoned et discarded maerial pr product	110	(1%)	U	(0%)	3	(1%)	\$?	(4%)
Design deficiency	80	(154)	ų,	(0%)	0	(399)	SE.	(0%)
Are from faulty soutest or leoker conductor	50	(1%)	0	(6%)	ø	(0%)	\$T	(1%)
Other known factor contributing	320	(2%)	ø	(094)	36	(9%)	\$36	(4%)
Total fires	34,120	(10044)	16	(100%)	406	(100%)	3 (90	(100%)
Total factor extries	15,289	(108%)	20	(13458)	452	(113%)	\$2 (9	(11550)

Bone Fires involving Clothen Dryns And Washing Machines, 2004 9 NFPA Pries Analysis & Resourch, Quincy, MA

Toble 2. Hune Fires Involving Washers or Dryess, by Foctor Contributing to Igation (Continued) Amount Assurge of 2008-2006-Einecture First Reported to U.S. Fire Departments (Enhanced First)

C. Washing Machines

Factor	1	Firen		Zvilian Icathy		Civilian Injurior		d Property 2 (in Millions)
Oschositied mechanical failure ne stallunnica	200	(29%)	0	(NA)	2	(14%)	\$3	(35%)
Dragonified short-circuit are	140	(21%)	a	(NA)	4	(21%)	12	(1354)
Carlovellint eleptricel festure or mailsmotion	tiio	(15%)	0	(NA)	2	(11%)	\$1	(13%)
Wom out	106	(14%)	Ü	(NA)	3	(3.5%)	\$0	(6%)
Other known factor contributing to ignition	181	(76%)	0	(NA)	7	(39%)	\$3	(58%)
Total fires	690	(160%)	ø	(NA)	37	(100%)	26	(160%)
Tetal factor entries	710	(103%)	Ü	(NA)	17	(100%)	\$7	(120%)

NA - Not applicable because total is zero.

D. Combination Washer/Dryers

Fautor	1	Pitrus		ivilian asthr		Civillen Injuries		si Property 20 (la Millions)
Uncleasified machinical failure or realization	140	(26%)	0	(NA)	4	(27%)	\$1	(23%)
Fadure to elean	120	(2236)	- 6	(NA)	4	(2456)	51	(11%)
Unclassified electrical failure or engl/inchion	68	(11%)	δ	(MA)	4	(24%)	80	(750)
Other known factor contributing to ignition	260	(47%)	Û	(NA)	4	(24%)	\$5	(\$5%)
Total fires	\$40	(100%)	3	(NA)	16	(100%)	\$6	(100%)
Total factor entries	580	(106%)	0	(NA)	16	(100%)	\$7	(123%)

NA - Nut applicable tursuse (etal is asso.

NA - As a general recursive feat as size of the properties of the

Some. Then from NEES Version 5.9 and NEPA movey.

Home Fires Involving Clathes Depoes And Washing Idonbines, 2000

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Table 3. Home First Involving Washess or Dryers, by them First Ignited Annual Average of 2003-2006 Structure Vires Reported to U.S. Fire Departments (Excluding Fires Reported as Confined Fires)

A. Clother Deputs and Washing Machines

Item First lymited	Pires					irālisa juriss	Direct Property Damage (in Millions)	
Clothing	4,370	(26%)	4	(26%)	165	(38%)	\$60	(30%)
Dest, Mer, or his	1,526		5	(31%)	73	(37%)	\$38	(19%)
Linclassified soft goods or challing	1,490		J	(0%)	50		\$21	(10%)
Appliance housing or caring	1,160	(8%)	4	(24%)	1.2	(346)	234	(12%)
Wire or eable insulation	1,100	(7%)	อ	(0.%)	38	(9%)	\$12	(6%)
Lines other than bedding	680	(4%)	9	(09a)	15	(3%)	\$4	(2%)
Unclassified item first ignited	500	(3%)	ą	(698)	- 3	(1%)	\$3	(1%)
Mattress or hadding	380	(216)	e	(094)	5	(1%)	\$7	(394)
Interior well covering	26C	(2%)	- 3	(19%)	3	(1%)	511	(5%)
Orive bota	220	(114)	G	(0%)	5	(176)	\$0	(0%)
Francobio or combustible gus or liquid	136	(1%)	0	{0:4s}	32	1754)	52.	(154)
Pipe, dect, conduit or bose	F30	(1%)	Ğ.	(0%)	- 5	(035)	\$1	(869)
Multiple Kems first ignhed	130	(1%)	0	(0.55)	7	(2%)	\$3	(1.56)
Structural anomics or finning	\$G	(1%)	Ġ	(1%)	9	(02)	\$4	(3%)
Choots not made up, including Sabries and yard goods	86	(126)	0	(0%)	2	(1%)	92	(0%)
Other knows tons first ignited	\$ \$ 0	(4%)	Ω	(0.25)	22	(5%)	513	(6,%)
Tobal.	15,350	(100%)	16	(105%)	413	(100%)	\$391	(100%)

B. Cledies Dryers

free First Ignited		Fires		Civilins Beaths		ivilkut juries		Property (in Millions)
Clothing	4,240		4	(26%)	165		358	(31%)
Dust, fiber, or line	3,600	(27%)	5	(91%)	65	(16%)	\$37	(38%)
Unclussified soft goods or	1,420	(10%)	Ű	(6%)	56	(13%)	\$19	(10%)
ciotiing								
Appliance bousing or easing	960		4	(24%)	12		\$12	(12%)
Wire or cable inculation	\$40	(6%)	0	(0%)	36	(8%)	S51	(6%)
Lines other than bedding	666	(5%)	Ç.	(8%)	15	(4%)	54	(2%)
Unclassified item first ignited	420	(3%)	- 0	(6%)		(0%)	5.2	(156)
Edetions in Schling.	363	(3%)	Đ	(914)	2	(196)	\$7	(35%)
Interior wall covering	2/0	(2%)	3	(19%)	3	(125)	511	(6961
Financisie or contrastible gas or liquid	(4)		0	(0%)	29	(7%)	\$2.	(1%)
Ping, duct, conduit or bose	120	(1%)	- 0	(0967	ย	(326)	\$1.	(086D)
Multiple Henre first ignited	01.1	(1%)	ß	(0%)	3	(1%)	\$2	(1%)
Drive tell.	90	(F%)	Ü	(0%)	3	(1%)	50	(346)
Structural mension or framing	69	(156)	9	(9%)	0	(5/543	\$4	(2%)
Goods not made up, including fairfus and yard goods	70	(196)	Ð	(0%)	2	(1%)	\$0	(17%)
Other knows tone first ignised	500	(4%)	Ç	(0%)	18	(5%)	\$10	(n %)
Total	14,120	(156%)	18	(100%)	409	(100%)	\$190	(103%)

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Table 3. Home Fires Involving Weshers or Dryers, by Item First Igalized (Conditional Annual Average of 2003-3006 Structure Pires Reported to U.S. Pire Departments (Excluding Fires Reported as Confined Vises)

C. Washing Machine

item First lynited	Fires	Civillian Denths	Civilian Injuries	Direct Property Damage (in Millions)
Wire or callet insulation	238 (29%)	9 (NA)	4 (26%)	\$1 ()3%)
Appliance Ecusing or easing	140 (21%)	6 (NA)	0 (0%)	\$2 (10%)
Drive Soit	139 (1896)	G GSA3	3 (15%)	30 (2%)
Unclassified item first ignited	68 (8%)	6 (NA)	2 (14%)	\$9 (1%)
Oller known item first ignited	169 (23%)	U (NA)	8 (40%)	\$3 (54%)
Total	690 (166%)	6 (NA)	17 (190%)	\$6 (188%)

NA - Not applicable because total is zero.

B. Cognification Washer/Devers

Item First Egalted	Pres	Civilian Deaths	Civillan Injuries	Direct Property Damage (in Millions)
Dust, filter, or list Clothing Wire or only a lymbolica Applicace bassing or cosing Other known hera first ignited	(30 (24%) 92 (16%) 70 (13%) 20 (12%) 190 (35%)	0 (NA) 6 (NA) 0 (NA) 0 (NA) 0 (NA)	8 (49%) 8 (0%) 4 (24%) 9 (6%) 4 (27%)	\$1 (17%) \$1 (25%) \$0 (25%) \$1 (13%) \$3 (49%)
'l'otal	548 (100%)	0 (NA)	16 (18094)	\$6 (160%)

NA -- Not applicable because total is zoro.

Note: Figures saviate confined force, which are time apported as confined to their better or boiler, stitutiony or flow, anothing sowell, trust, investment, or unamentally insequent. These at makined estimates of first reported by 11.5 monifolds for elegations and or confined to 11.5 monifolds for elegations and or force of the stitutes of the first product of the stitutes of the better in the stitutes of the s

Sparce: Data June WHIRS Version 5.0 and PEPA survey

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Table 4. House Flees landwing Wankers or Dryers, by Area of Grupis Annual Average of 2003-2006 Saucture Fires Reported to U.S. Fire Departments (Eschulung Fires Reported as Confined Fires)

A., Clother Depers and Washing Machines

Area of Origin	Fires			Civilian Desibs		ritissa jurtes	Direct Property Damage (in Millions)	
Laundhy room or area	12,550	(8)%)	5	(3194)	379	(88%)	\$160	(79%)
Garace*	428	(3%)	Đ	(0%)	4	(1%)	41;	(6%)
Crand space or substructure space	380	(294)	4	(2635)	16	(4%)	\$4	(294)
Kitasan	350	(2%)	4	(2438)	w	(2%)	35	(2.%)
Unainsetted equipment or service area	260	(2%)	Û	(0%)	3	(2%)	31	(139)
Laureday or mail clusts	140	(196)	0	(3%)	3	(3%)	\$1	(190)
Backsoons	146	(1%)	35	9094)	2:	(034)	25	(1%)
Unclassified area of origin	118	(1%)	. 6	(0%)	0	(0%)	\$:	(396)
Unclassified storage area	110	(1%)	Q	(0%6)	2	(1%)	32	(176)
Healing equipment roun	110	(196)	Ď.	(\$%6)-	3	(1%)	Şì	(1%)
Unclassified structural avea	160	(1%)	6	(0%)	5	(1%)	52	(196)
Ciner	1(30	(3%)	₿	(0%)	G	(5%)	39	(0%)
Dua	90	(396)	Đ	(094)	0	(0%)	81	(096)
Giffiner Kusswa area oz ovigin	550	(4%)	3	(19%)**	3	(1%)	\$11.	(48E)
Total	13,350	(100%).	t6	(190%)	633	(100%)	\$30 t	(100%)

^{*} Number Ng geddyndain pantyra anoval sa aspartin (1994); ** The lending area will omgat for file cleater red shown shows in unders visus Function saws () 5% of fine cleanist.

B. Clothes Drysts

Area of Osigha		fires		Civilian Dextis		urics epiter	Direct P Danage (î	
Елицийну воют от атов.	11,590	(81%)	5	(31%)	352	(88%)	0112	(29%)
Garaga*	493	(3%)	. 0	(C%)	4	(135)	\$11	(6%)
Chard space or solistrations frame	350	(2%)	4	(26%)	16	(4%)	\$4	(2%)
S. richem	316	(226)	4	(24%)	10	(3%)	\$5	(290)
Unclassified equipment or service area	243	(2%)	٥	(656)	7	(2%)	51	(1%)
Laundry or mail state	120	(1%)	0	(47%)	3	(1%)	53	(1%)
Badenors	170	(1%)	0	(6%)	2	(15%)	\$1	
moys transport gains and fi	100	(196)	- 0	(296)	3	(116)	\$1	(1%)
Linclassified storage area	196	(156)	0	(0%)	O	(9%)	\$2	(1%)
Unclassified grea of origin	99	(1%)	0	(6%)	tì	(0%)	£١	(0%)
Linchestified staurantal area	901	(196)	ઈ	(0%)	5	(1%)	12	(1%)
Closel	90	(1%)	0	(094)	Đ	(0%)	\$5	(0%)
Date	95	(1%)	ĝ	(6%)	Ð	((2%)	S1	(053)
Office known area of origin	510	(4%)	3	(12%)**	0	(6%)	\$11	(69%)
Total	14,120	(100%)	16	(100%)	400	(200%)	\$190 ((949)

⁸ Electroding and Mexicos garages todaid on arparisis possessity.
4º The heading cost of single for the deaths not down above above to securate limit for the out of \$200 of the deaths.

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Table 4. Home Fires Involving Washers or Dryers, by Area of Origin (Continued) Annual Average of 2003-2008 Structure Fires Departments (Excluding Fires Reported as Continued Vices)

C. Washing Marbines

Ares of Origin	Flreu	Civilian Destins	Civilian Injuries	Direct Property Damage (in Millions)
Lauralty roma or area Other known area of origin	580 (84%) 110 (16%)	0 (NA) 0 (NA)	17 (109%) 0 (0%)	\$5 (\$1%) \$1 (9%)
Tegal	690 (100%)	0 (NA)	17 (160%)	\$6 (100%)
NA - Not applicable because food a	yero,			

D. Carrieration Western Management

Area of Origin	Fires	Civilian Deaths	Civilias Injurier	Direct Freparty Dantage (in Millions
Leandry more or area	420 (78%)	0 (NA)	11 (71%)	\$5 (85%)
Other known area of origin	120 (22%)	0 (NA)	\$ (39%)	(3421) 12
Tetal	540 (160%)	9 (NA)	16 (150%)	SS (100%)

NA - Aid applicable because total is zone

Next. Tigames and control of the con

Source: Data from NFIRS Version 5.0 and NFPA survey.

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Appendix A. How National Estimates Statistics Are Calculated

The statistics in this analysis are ostlerates derived from the U.S. Fire Administration's (USFA's) National Fire brokdent Reporting System (NFRS) and the National Fire Protection Association's (NSFA's) annuar survey of U.S. fire departments PNFRS is a columnity system by which participating fire departments report detailed factors about the fires to which they respond. Roughly two-thinks of U.S. fire departments participate, although not all of these departments provide data every eyen. Fires reported to identify a state five departments or industrial fire brigades are not included in those estimates.

NPIRS provides the most detailed incident information of any national database not limited to large fires. NPIRS is the only database capable of addressing sational pattorns for fires of all sizes by specific property use and specific fire cause. NPIRS also captures information on the extent of fisance spread, and automatic desection and suppression equipment. For more following on the NPIRS whit into the new part of the property of the property of the downloaded from http://www.nifa.firea.acus/L.Copies of the paper former may be downloaded from http://www.nifas.fema.acus/Adocumentation/design/NFIRS_Paper, Centre, 2008.pdf

NEIRS has a wide variety of data elements and code choices. The NEIRS Per isos nue a wince variety or once centrents and outer broads. An everyte discharge contains coded information. Meny code choices describe several conditions. Those cannot be broken down furtiles. For example, area of crigin code 35 cophrac fiber sterring in vericles against energy nursing spars areas or wheel areas. It is impossible to tell the portion of each from the coded date.

Methodology may change slightly from year to year.

NPA is continually examining its methodology to provide the best possible
answers to specific questions, nethodological and definitional changes can occur.

Earlier editions of the stress report may have used different mathodologies to
produce the some analysis, meaning that the estimates are not directly
comparable from year to year.

NFPA's fire department experience survey provides estimates of the hig

picture.

Bash year, NEPA conducts an annual survey of fire departments which enables us of capture is summary of fire department experience on a larger scale. Surveys are sent to all numbrings departments protecting populations of 50,000 or more and a reaction sample, statified by community size of the samplet department. Typically, a total of resightly 3,000 surveys are returned, representing about one of every (on U.S. modicipal line departments and about one third of the U.S. population.

The survey is stratified by size of population protected to reduce the incorrainty of the final estimate. Small rural communities have fewer people protected per department and are less likely to respond to the survey. A larger number must be

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surveyed to obtain an adequate sample of those departments. (NPPA also makes follow-up calls to α sample of the smaller fire departments that do not respond, to confirm that those that did respond are only representative of fire departments that sixes (D in the either hand, large city departments are so few in number and protect such a large proportion of fite total U.S. population that it makes sense to survey all of them. Most respond, resulting in excellent precision for their part of the final estimate.

The survey includes the following information: (3) the total number of fire incidents, civilian deaths, and civilian injories, and the total estimated preperty damage (in dollars), for each of the major property use classes defined in NFIRS; (2) the number of on-duty freelighen injuries, by type of duty and sature of libeas; 3) the number and nature of non-the incidents; and (4) information on the type of nummanity protected (a.g., county versus township versus city) and the size of the population protected, which is used in the statistical formula for projecting antional scale from sample results. The results of the survey are published in the annual report Fire Loss in the instant State of the control at least only and the copy of the report, visil http://www.nfia.org/usess/files/DEXES_fitefors.pdf.

Projecting NFIRS to National Estimates
As noted, NFIRS in a voluntury system. Different states and jurisdictions have
different reporting requirements and practices. Participation rates in NFIRS are
not recessarily uniform access reploase and community sizes, which factor
correlated with frequency and severity of fires. This meens NFIRS may be
susceptible to systematic biases. No one as present can quantify the size of these
deviations from the ideal, representative sample, so no one can say with
confidence that they are or into not serious problems. But there is enough reason
for concern so that a second database – the NFIPA survey – is needed to project
NFIRS to national estimates and to groject different parts of NFIRS separately.
This multiple calibration approach makes use of the annual NFPA survey where
its statistical design adventages are strongers.

Scaling ratios are obtained by comparing NEPA's projected totals of residential structure fires, non-residential structure fires, vehicle fires, and outside and other fires, and associated civilian deaths, civilian injuries, and direct property damage with comparable traits in NIRES. Estimates of specific five problems and circumstances are obtained by multiplying the NFIRS data by the scaling ratios. Reports for incidents in which mutual aid was given are excluded NFPA's

Analysis at the NFPA, the USFA and the Consumer Product Safety Commission Audjets at the NPPA, the USEA and the Constance Product Sately Commissed developed the specific basic analytical rules used for this procedure. The National Estimates Approach to U.S. Fire Statistics," by John R. Hall, Jr. and Bostize Harwood, provides a more deadled explanation of national estimates, copy of the article is available online of http://www.nfsa.org/ocis/or through NPPA's One-Step Data Shop.

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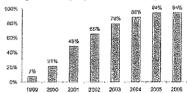
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Version 5.0 of NFIRS, first introduced in 1999, used a different coding structure for version and a region, man uniquenced in 1997, used a statemen coding statement or many data elements, added some property use codes, and dropped others. The essentials of the approach described by Hall and Barwood are still used, but nome modifications have been necessary to accommodate the changes in INFIRS 5.0.

Figure 1 shows the percentage of fires originally collected in the NFIRS 5.6 system.
Each year's release version of NFIRS data also includes data collected in older vertions of NFIRS that were converted to NFIRS 5.0 codes.

Figure 1. Pires Originally Collected in NFIRS 5.0 by Year



For 2002 data on, analyses are based on scaling ratios using only data originally collected in NFRS 5.0:

For 1999 to 2001, the same rules may be applied, but estimates for these years in this form will be less reliable due to the smaller amount of dute originally collected in NFIRS 5.6; they should be viewed with extreme cantion.

NYTER 5 6 introduced six estegories of confined structure fires, including:

- cooking from coefficed to the cooking vertel,

- untrined chimney or the fires,

- confined inducentor fire,

- conflued fuel burner or builtr fire or delayed ignition,
- confund commercial compactor fire, and
 each or rubbleb fires in a sheeture with no flame damage to the structure or its

Although causel and other detailed information is typically not required for those incidents, it is provided in some cases (typically 10-20%). Some analyses, partic

Home Kieve Involving Clothes Depoes And Washing Machines, 1909

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those that examine cocking equipment, favating equipment, fires caused by smoking materials, and fires started by playing with itm, may examine the confined fires in greater detail. Because the confined fire insident types describe certain securities, the distribution of functions data of differs from that of stil fires. Consequently, allocation of unknown that of the fires from that of stil fires.

Some analyses of structure fires show only non-confined fires. In these notes, percentages shown are of non-confined structure fires rather than all attracture fires. This sporeced has the advantage of showing the frequency of specific factors in fire causes, but the disadvantage of possibly overstating the percentage of factors that are schema-soon in the confined fire incident types.

Other analyses include entries for confined fire incident types in the causal tables and show percentages based on total structure fires. In these cases, the confined fire incident type is treated as a general causal factor.

For most fields other than Property Use, NPPA allocates unknown data proportionally among leaven data. This approach assumes that if the missing data were known, if a words be distributed in the same nature as the known data. NPPA maken additional adjustments to several fields. Covarily and last projections can be heavily influenced by the inclusion or exclusion of unamally serious fire.

In the formulus that follow, the term "all fires" refers to all fires in NFIRS on the

Factor Contributing to Ignition: In this field, the code "none" is treated as an unknown and allocated proportionally. For Human Factor Contributing to Ignition, NFPA enters a code for "not reported" when no Across are recorded. "Non reported" is treated as an unknown, but the code "none" is treated as a known code and not allocated. Multiple entries are allowed in bette of time Berlind. Percentages are calculated on the fact-I number of lines, not entries, resulting in succeptant than 100%. Although Pactor Contributing to Ignition is only required when the cause of figurition was other 2? unintentings.) failure of cyclipment or heat scarres; or 4) set of nature, data is often present when eact required. Consequently, any fire in which no factor contributing to ignition was entered was treated as unknown.

In some analyses, all entries in the category of dectrical failure or multimotion (factor contributing to ignition 10-39) are combined and shown as "electrical failure or multimotion." This category includes:

- 31. Winter-caused duct circuit and
 32. Short-directit are from merchanized damage;
 33. Short-directit are from merchanized damage;
 33. Short-directit are from deficitive or twen insulation;
 34. Unspecified short-directif are:
 35. Are from faulty contact or broken connecter, including broken power lines and

House Fires havolving Clothes Deyese And Washing Machines, 3/09

18 NFPA Fice Analysis & Research, Quincy, MA

- Touse connections; 36. Are respect from operating equipment, switch, or electric feace; 37. Fluorescal light ballast; and 30. Electrical failsing or malfunction, other.

Type of Material First Ignited (TMI). This field is required only if the Item First Ignited falls within the code range of 0.6-90. NFPA has created a new orde "hot recopies" for this laid that is applied when time First Ignited is in code 30-99 (organic materials, including cooking materials and vegetation, and general materials, cach as electrical wire, cable involution, transformers, trees, books, newspaper, dust, rubbink, etc.) and TMI is birnh. The ratio for allocation of unknown data is:

(All fires - TMI Not required)
(All fires - TMI Not Required - Utsketermined - Blank)

Heat Source. In NFERS 5.9, one grouping of codes encompasses various types of open flumes and smoking materials. In the past, these had been two separate groupings. A new code was added to NFERS 5.0, which is code 60: "Fixed from open flame or soudding material, other "NFEA treat this code as a partial unknown and allocates it proportionally across the codes in the 61-69 range, shown below.

- 61. Organitic;
 62. Pipe or clgar;
 63. Heat from undotermined smoking material;
 64. Match;
 65. Lighter; o'garette lighter, o'gar lighter;
 66. Candle;

- Cantale;
 The Committee of Warming or road Hars, fitse;
 Backfire from internal combustion engine. Excludes flarnes and sparks from an exhaust system, (11); and
 Flarnerbacch used for lighting, Includes gas light and gas-fliquid-fueled lantern.

In addition to the conventional allocation of missing and undetermined fires, NFPA multiplies fires with codes in the 61-69 range by

The downside of this approach is that healt sources that are truly a different type of open flame or smeking material are erroncously assigned to other categorius. The grouping "answing materials" includes codes 61-63 (cigarettes, pipes or cigare, and heal from undetermined smeking materials, with a proportional share of the code 60s and trae unknown data.

Equipment Involved in Ignition (EH). NFIRS 5.0 originally defined EH as the piece of

Firms Fires involving Clathes Dryan And Washing Machines, 300

19 NEPA Fires Analysis & Resourch, Quincy, MA

equipment that provided the principal heat source to cause ignition if the equipment staffunctioned or was used improperty. In 2006, the definition was used field to "the piece of equipment that provided the principal heat source to cause ignition." However, which of the data prestates the change. Individuals who have stready been trained with the other definition may not change their provides. To compensate, NIPA troots fires in which RII = NNN and heat source is not in the range of 40-99 as an additional unknown.

To allocate unknown data for BH, the known data is multiplied by

All fires – blank – undeterrorised – fires in which Ell =NNN and heat source <-40-09])

In addition, the partially nuclessified codes for broad ensignment groupings (i.e., code 100, - heating, wentilation, and air conditioning, other; code 200-electrical distribution, lighting and power transfer, other; etc.) were allocated proportionally coroses the individual code choices in their respective broad groupings (beating, ventilation, and air conditioning; electrical distribution, lighting and power transfer, other; etc.). Equipment that is totally unclessified is not allocation distribution. Equipment that is ruly different is erroneously assigned to other caregories.

In some analyses, various types of equipment are grouped together. (Confined fire incident types are not discussed here)

Code Grouping	EH Code	NFIRS definitions
Central heat	132	Furnace or central heating unit
	133	Boiler (power, process or heating)
Fixed or portable space heater	131	Furnace, local heating unit, built-in
•	123	Pirculace with insert or stove
	124	Heating stove
	147	Heater, excluding catelytic and oil- filled
	142	Catalytic heater
	143	Oil-filled hoster
Fireplace or chimney	121	Fireplace, mesonry
, ,	122	Fireplace, factory-built
	125	Channey connector or vent connector
	126	Chimney - brick, stone or masonry
	127	Chimnoy-metal, including stavepipe or thus
Wiring, switch or outlet	2(0	Unclassified electrics; wiring
-	211	Recarical power or utility line
Hame Fires involving Clothus Dryors And Working Machines, 309	20	NPPA Fires Analysis & Rosensch, Quincy, MA.

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EHP LARSON 073954

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EMP LARSON 073955

	212	Electrical service supply wires from	634 P
		udlity	635 P
	214	Wiring from meter box to circuit	636 S
	0.14	breaker	637 T
	216 217	Electrical branch circuit	63E W
	218	Outlet, receptacle Wall switch	639 W
	210	WALL SWITCH	641 B
Power switch goar or overgurent	215	Panel board, switch board, circuit	***
protection device		breaker board	Hert First Ignited. In most analyses, mattress and ;
•	219	Gentral fault interrupter	bedding, blankers, sheets, and comferers (from first
	222	Overcurrent, disconnect equipment	as "restresses and bedding." In many analyses, was
	227	Surge protector	34) and wearing appears on a person (code 35) are co
			some analyses, flammable and combustible liquids a
Lamp, bulb or lighting	230	Unclassified lump or lighting	ignited 60-69) are combined and shown together
	231	Lamp-inhiotop, floor or desk	
	232	Lanters or flashlight	Area of Origin. Two areas of origin: because for
	233	Incardescent lighting fixture	bedroom for less than five people (code 22) are comb "bedroom."
	234 235	Fluorescent light fixture or ballast	mentoditi.
	236	Halogen light listure or lamp	Rounding and percentages. The date shown are es
	250	Sodium or mercury vapor light fixture or lame	entry of zero may be a true zero or it may mean that
	237	Work or trouble light	Percentages are calculated from unsounded values. I
	238	Light bulb	percentage entry of up to 186%, even if the rounded
	241	Nightlight	rounded value may account for a slightly different pe
	242	Decorative lights - line voltage	percentages are expressed in integers and not carried
	243	Descriptive or fandscape lighting - low	percentages that appear identical may be associated a
		voltage	
	244	Sign	inflation. Property damage estimates are not ad-
		-	indicated.
Cord or plag	260	Unclassified cord or plug	
	261	Power cord or ping, detachable from	
		иррилисе	
	262	Power cord or plug- permanently	
		attached	
	263	Extension cord	
Torch, bance or soldering iron	331	Walding torch	
roles matter of soluting field	332	Cutting terch	
	333	Burner, including Burson burners	
	334	Soldering equipment	
	334	contents rainbasen	
Portable cooking or warming	631	Coffee maker or teaper	
equipment		£	
	632	Food warmer or heli plate	
	633	Ketile	
Marie Branch and the Stades form	21	Olina Class tackets at a contract of the state	House Fires Involving Clothes Drups 22 NPI
Hune Fires Involving Clarkes Dryacs And Washing Machines, 3109	21	NPPA First Analysis & Research, Quinty, MA	And Parising Suprimer, 3:09
come commencing transmission to A.S.			,,

Popular popper Pressure cooker or camer Slow cooker Toaster, toaster oven, counter-top broiler Waffle inn, griddie Wok, frying pan, skulei Breadmaking machine

d pillows (item first ignited 31) and to pulsass (item to a parteur styres) set tigated 32) ero combined and shown renting appared not on a person foode combined and shown as "clothing," in a and gases, piping and litters (item first

or more than five people (code 21) and exhined and shown as simply

e estavants and generally rounded. An last the value rounds to zero. In it is quite possible to have a sed number contry is zero. The same is percentage chare. Hecause lost out to several doctinal places, ed with slightly different values.

aditioned for inflation uplies so

WPA Fires Analysis ir Restarch, Quincy, MA

and Clother Depose Cen Course Fires, Salate Alect



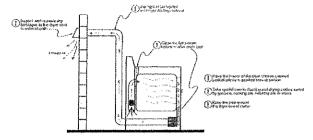
Consumer Product Safety Commission Overheated Clothes Dryers Can Cause Fires

CFSC Document # 5022 Updated June 2003

The U.S. Consumer Product Safety Consensation eclanates that in 1898, continue dryers were associated with 15.500 fires, within resided in 20 depte and 70 hyprise. Fires cen occur when lith builds up in the dyer or in the exhaust door. Lint can block the flow of oil or, course concessive heat builds up, and result in a fire in serior depte.

- Cleen the list screen/lister before or after dryling each load of old-time. If clothing is after damp at the end of a typical drying opin or dryling requires komper times than normal, this may be a signified the list acreen or the ashausi dust is backled.
- Clean the dryer vent and exhapset duct periodically. Check the cuitable dryer vent while the dryer is one one enhance at it accoping, it is a not, the vent of the variety be blocked. To centure a blocked to the valuant duct may be blocked. To centure a blocked to the statust polit, it may be more say to disconnect recomment me ducing to the order of the
- Clean behind the dryor, where list can build up. Have a qualified senice person clean the interior of the dryer chasels periodically to minimize the emount of list accumulation. Keep ministize the emount of lint accumulation. Keep the area around the dryer clean and free of
- Replace plastic or foil, accordion-type dueting material with rigid or corrugated semi-rigid metal duet. Most manufactures specify file use of a rigid or corrugated eart-sight metal duet, which provides maximum silitow. The facilities plastic or foil type duct can those easily flep file and is increased; plastic or foil type duct can those easily flep file and is increased; but foil or creating, which can greatly neduce the silitow.
- Take appeals care when drying clothes that have been solled with votable showliched such as pacifies, cooking oits, cinewing agencs, or finding oits, crimwing agencs, or finding oits and share. It possible, wast the cobbing roots then once to minimize the amount of votable chemicals on the clothes and, perfectably, they be obtained to for, if saling o drying, use the lowest head setting and a drying cycle that has a cook dozen perfor of the end of the system. Or prevent distinct from (insiding after drying, do not leave the direct clothes in the dryer or given in a large of the large of the drying of the cook of the drying of the cook of the drying of the cook of the drying of

Dogsteam Choice Proge Can Cause Fire, Safety Alex



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The U.S. Consumer Product Sufaty Commission is changed with protecting that public from unreasonable risks of serious lighery or death from thousanded or types of consumer products entire the peeply liverations. The CPSC is committed up protecting concentration and including the products of the peep of the electrical premiser, or mechanism board. The CPSC is work to ensure the salety of consumer products—which as toys, office, power tools, against lightest, and thousanded consideration conflicted elegible of consumer products—which as toys, office the products of the salety of consumer products—which as toys, of deaths and rejudies such conflicted or commission contributed of years.

To report a dangerous product or a product rotated many, cell CPSC's holine at (BID) 658-2772 or CPSC's felelypowriter at (301) 565-7784, or visit CPSC's web site of <u>more reproducible</u> hing? To juin a CPSC centil subscription fats places go to hospital entry or the control of the places go to hospital entry or the control of the report of the control of the contr



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http://www.epra.gov/arsequibleshe/3022.htmlf1/7/div0.2.40:57.PMf

EHP LARSON 073959

32-5034-04

User's Information Guide

Gas Furnaces --- Non-Condensing Fan Assisted Combustion System Upflow / Horizontal and Downflow / Horizontal

A WARNING

- Do not store or use gasoline or other fammable repore and liquids in the vicinity of this or any other applicance.
- WHAT TO DO IF YOU SHELL GAS
- Do not try to light any appliance.
 De not touch any securiori switch; do not touch any phone in your build!
- Immediately call your gas supplies from a seligitiat's phone. Follow the gas supplier's factor of the party o
- DD NOT RELY ON SMELL ALONE TO DETECT LEAKS, DUR TO VARIOUS FACTORS, YOU MAY NOT BE ABLE TO SMELL FUEL GASES.
- NOT BE ABLE TO BRELL PUBL GRADES.

 I.L. recognized fisel gas and CO detectors are recommended in all applications, and shoir least-liction should be in eccordance with the natural acturer's recommendations audior local laws, rules, regulations, or contoms.
- anne, come, regulations, of curtoms.

 Institletion and verylor must be performed by a qualified material, service nactory of the gas aupplier.

A WARNING

GENERAL INFORMATION
Unidented the singule weet to NAISER, WANNIEG, AND
CAUTION. These weeks are saidly sinst works. DAMEER
Softment the out-of-time tensor shorthy myll residence the new certion insured which myll residence the new certion insured which myll residence the new certion insured which myll residence to the new certification of the certification of the

Contents

Dangers, Warnings & Cautions	
General Information	
To Start the Furnace	
Proper Maintenance	(A) (A) (A)
The Problem Solver	
Regular Dealer Maintenance	
Warranty	

IMPORTANT FACTE

IMPORTANT PACTE
The Size of combination and weithering our rame had be
obligated from reaching the furness. Air openings provided
in the course of the turness made be kept free of doubt-viles a
which would resent airfane, thereby affecting officiency and
had expected on Sport furness.

unde operation of your formous.

Along at equivaley provided to the area in which the furnace to invested and the space wound the furnace test and the test and the blocked or chartered Kinep this in main should your doose to recently the cross which contains your formous. It addition invested on the cross which contains your formous it additional insulations is acted after the trumper formation. It additions insulations is acted after the trumper formation in its invested according to the cross according to the containing the great according to the formation of the containing the space of the containing the containing the containing the containing the containing the containing materials at present passage and the containing materials at present containing the containing materials at present containing materials at present passage and the containing materials at present containing materials at the containing materials at present containing materials at the containing materials and the containing materials at the containing materials and the containing materials are contained to the containing materials. Furnerse must have air for surper performance. There must be a free flow of fresh are enfinises for efficient conductions and safe wastiming of your formuse.

and talk vesicitation of your forman.

The confusions as five your furnation must be fixed, unaccontinuous as five your furnation easily bload as, determined also. Faints, was bload to share ordinating subject, many bload-bodd cleaners, waske ordinating subject, and all fearth profess to release fluxes continuous conjourned where developed need to easily the and subject and versicity fluxes or the confusion of the confusion of

produces seen your measures.

Where steen gasoline, combentities materiols, or other financials in the liquids or various reservant furnion.

Cation structurities, there or motive can cause serious toddy injury, death, action property demage.

User's Information

A zatiety of potential assurance of unbas amountable case to trans of in Asiddings or deschilling such or gan-final desther drops, give necking stower, same heavens, transcess and fineplaces. The LLS Commune Product Soldy Communica-tion of the Communication of

MOTE: The manufacturer of your families done not feel any detec-tors and makes no representations regarding any braid of type of defector.

A WARNING BORILY MAJERY CAN REPORT FROM HIGH WOLTAGE ELECTRICAL COMPONENTS, RAST MOVING FARR, AND COMPOSITISTES AS SO THE PROPERTOR FROM THESE COMPOSITISTES AS TO UNRIGH UNTALLATION AND SERVICION, THE ELECTRICAL SUPPLY WHIST BE CONNECTED AND THE MAIN GAS VALVE MUST BE TURNED OFF. lindelling and servicing healing equipment, out he large due to gas and electrical components. Galy instead and qualified resonance should brainly report or service basis agripment.

Ports and makeds of this farmine are unique. Should service or modification be required, be over your service uses only factory enthurized parts, hits, or someoprins for the farmers. If you superiouse a problem with the sparation of your furness, check the "Problem Solver" section of this manual before you can be a possibly currected onlying call.

A WARNING

Improper testablisher, adjustment, alteration, service car.

Improper testablisher, adjustment, alteration, service car

mistretenance seen causa's injusty or property damages. Relief or

the metabulation with reduction provided with the sylmance and

that metabulation services or additional information conauth a quelified testablian, service agency or the gas supplier.

To Start the Furnace

- Do not attempt to manually light the furnion, Phoese read all safety information in this book before operating furname.
- operating notions:

 Set thereinstal for insuch setting. Turn off of aborein power to furnism.

 Remove the furnism: first panel to gain access to the acoin par valve.
- scoin par valve.

 Fiving gas could knob chartwrise or the traggle switch locabel on the series gas varies realise the unds to "Diff" position case Uniteraction on ever page if the external gas cock is used, two to "Diff" position to extend gas cock is used, two to "Diff" position the illustration on seer page; Alfer's destinant to easy switcher that most not except. Alfer's destinant to except switch the unit of except. It gas being being hereing through and are required than the except. It gas being being hereing through all the most of the transfer o
- Turn gas each into essenterdesistive or the loggis twitch to "ON" merker (see illustration on next page).
 Replace the functor front scores pages.

- Turas on susha electrical outsigly state out the constaint to desired setting. Combustion there are will start and largified colorism will sear to least up a full empreounted by the seconds searing as waive will open until humans will ignife.
- Agains. When thermostad is suitaffeed, main humors will extragaish.

 Ni man humors field to lightle, layour thermostos sorting or Generated electrical surphy, sent 5 natures, raise thermostos described surphy, sent 5 natures, raise thermost electrical subor of the continuous raise.

 10. Himmon will sent highly layour Old supportainer.

 11. Himmon will sent highly layour Old surphism and describing to out and old nerview or up supplies.

For complete shallown.
Third give cook know on them give value to "OFF" position.

A CAUTION

il this is done during the cold weather membs, provisions must be taken to prevent treeze-up of all water pipes and

Whenever your house is to be varied, arrange to here someone impact your house for proper femperature. If your fluxace should fell to operate, damage useful result, such as freeze water plans.

freezos venter jupos.
Flaras Foll-curt Daviso.
Aŭ condejs es epipipost vizit a fumble bluk located neur the burnero. In case of flazas reli-cut, the finit will spon (colt) and cause the circuit to open which state-off all flow of gas

32-9324-04

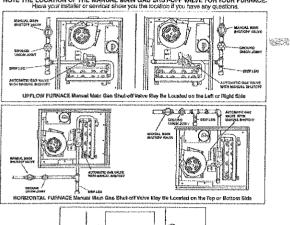
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User's Information



NOTE THE LOCATION OF THE MANUAL MAIN GAS SHUT-OFF VALVE FOR YOUR FURNACE.

Maya your installar or services show you the treation if you have any questions



00-9636-D1

(i) TOP VIEW OF RIGHT SIDE PIPING

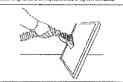
User's Information

Proper Maintenance Reduces Energy Use

A CAUTION

their seminoses.

In status to profile state by "destring the filter error a month you have an expeller furture, you can walk or idealy the you have an expeller furture, you can walk or idealy the last of the filter state of their or merch device; seasons for the filter with a vaccinary. Of you was your if the following the continues of the filter with a vaccinary. Of you was youth it has no weeken the water profilers for the filter with a vaccinary. Of you was youth it has no weeken the water profilers for the vaccinary to an early the water for replacements in a suplement for the profilers for the control of the profilers for the profilers for the control of the profilers for the profilers for the control of the profilers for the pr



With the new patented filter rach on the upflow models, all cleaning or reginding of filters in quick and way. Close filters justice and way. Close filters justice the optimize particulates of your system.

FACTORY SUPPLIED UPPLOW FURNACE SETTING AIR BUTCHS

ABINET VADTH	CYY	CABRIET BOTTOM FILTER	CABINET SIDE PRITER
14-1/2"	1	44 X 26 X 1*	17-1/2" X 25" X 1
17-1/2*	1	:7° X 25° X 1°	17-1/2" X 26" X 1
21"	1	20" X 25" X 1"	17-1/2" X 26" X 1"
24-1/2	1	24 X 25 X 1	17-1/2" X 25" X 1"





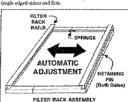
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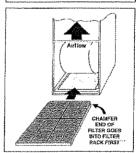
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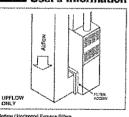
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User's Information





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85-5064-04

User's Information



A describe-like invarial furnace vertical velocus she filter problem on a chorun finiture two 34° x 10° x 1° Moreo in the $14-12^{\circ}$ while inverse confirming as two 16° x 12° x 1° filter the $14-12^{\circ}$ x 10° x 1° and $24-12^{\circ}$ x 1° filter the $14-12^{\circ}$ x 11° filter $14-12^{\circ}$ x 11° x

REQUIRED FILTERS - DOWNFLOW			
CARRIET WIDTH	FILTER GOANTITY & SIZE		
14-1/2"	2-14"X 20"X 1"		
17-1/2*	2-16" X 20" X 1"		
811	2 - 16" X 20" X 1"		
24-12°	2-18'X 26'X 1°		

ene

The Problem Solver

That's why attempts at "do-it-pourself" reports on an in-secretary unit may void the restainder of your warranty.

Problem	Possible Trouble	Postible Remony
Na Heathg — Stemm dogs coli gysnatis.	Theymostat set incorrectly.	 Adjust thermostal: See operating instructions.
	7. Hoven fine or mapped discuit breaker.	 Replace or reset protective drylos or cell for cersics;
	Defective component.	Most controls at a automatic and will excycle, if your unit will close not operate and for agrainer.
	4. Burear dose not ignite.	6. Catiser/lor
	 Make gas line turned offi. 	5. Have gaz company check.
	6. Eldvine soor removed or ejor.	 Close door securely to restore power to blower and gets today.
	7. Lockress	7. Turn power en-off-proof twise in 30 ecounds.
Insufficient Heating — Broker operates confinuously	1. Dirty air Wors,	Clean or replace filters.
	 Elocked supply or resum registers. 	 Assis sale registers are open and No observation bioxising of the air.
No Heat Vent mater is running.	Recitolad or plugged farrood Condenses drain.	Remove duty stamps to concensate trap and dusin pain celler,
		Pikest er dean dram bleckege,
	1	Reinstalf damps.
Ильный Мойко	T	Což vour servicer

35 B034-04

User's Information

A WARNING
OCT CONTAINS FRIENGLASS WOOL INSULATION encourse I Centain's FRENGLASS WIDE INSULATION!
Fiberglass dust and creamic fibers are between by the State of Claffornia to cause eancer through interiation.
Giscovool fibers may also couses respiratory, skin, or a

PRECAUTIONARY MEASURES Avota breathing theretes dust

- Avoid the attent the rights of clust.
 Use a NIOSH approved it intrinsist explinitor.
 Avoid contact wife the side or eyes. West largestered tookertaing ciotifing, plores, and eye presents.
- Waste dichles promoting from other clothing: rhase weaker thoroughly.

DESTANDAMENT

Skin Contact -- It'ash affected areas gonly with cop-and water water after handling.

A WARNING

42

Regular Dealer Maintenance

- A. the product carrying areas external to the farance fl.a. chimney, west commuter) are clear and the of chotraction.
- The very constants to its plant, slopes upward and is physically execut without holes or secretary correless
- payseasity counts writered inches or exceeding normalism. I The inches in robe excensively oil physically such and, is evaled to the formact out it truncates entain the space constanting the formact of the payse of the physical objects of the formace rebuild to account of the physical objects of the formace rebuild to account of the passes of the physical objects of the formace of the halos or act to previous a cost bufferent the support and the base.

 A. Then, are no obviewe signs of determention of the formace.

A WARNING

Exposure to fixel advances or by-preducts of inconfuel combashing is believed by the state of Californi cause concer, birth defects, or other reproductive by

2. BLOWERS – The blower time and agend determine the saw volume delitared by the formace. The blower medor hearings are factory judicious and undere cornel or hearing are factory judicious and undere cornel speciality of the blower bride and brungles servicing around closelying of the blower bride and brungles is recommoded for maximum air output, and the most is performed early by qualifilds everyor or survive agency

A WARNING

32-5034-04

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32-5034-04

User's Information ...

ENTER - This wat has a special hat surface direct ignifica device that cottonsticnly lights the horners.
 Element meta that it is very fragilitized effected by insulies

A CAUTION

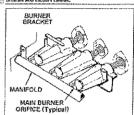
10 the nuturn generic is extransely rest.
8 PUKNER — Gas kurratus din ob normality metabre schedulish deswriting, bossesse, accumulation of foreign maiorial may comes a publicating florie or delayed sprince. Bibber conduction where the delayed sprince, Bibber conduction where the delayed conduction. The proceedings of the processing of the pr

Dara offigne and electric prover emply. To clean buchers, remove top lamine bracket and lift humber from or/line. NOTE; is sareful and to break igniter when removing burners.

Coun burners with brash under vacuum cleaner. Resistantile parts by several of the above provides.

NOTE: On LP (property) write, some light yellow hipping of the user manife is borded, large manife should be bright blue.

nsuo, Astural gas sinits etroida net have any peltou Epped Reme This condition invitantes that a kerdice eail is required for best operation, burrors must be cleaned advantly using shabes and recover cleaner.



NOTE: CR LP (propane) units, due to variations in BTG content and attitude, servicing may be required at aborter

- internals.

 BALT EXCEANOES FIRST STIP Those tiens

 BALT EXCEANOES FIRST STIP Those tiens

 BALT EXCEANOES of the property of the should be respected for rights of convolute, studied

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 by a qualified service technisian and dounted annually
 to best operation.

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- normal operation.

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- craft is shown as so convene a measure or the start or and hasting sensors.

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A WARNING

CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER

EBP LARSON 073965

EHP LARSON 073967

User's Information

Limited Warranty

High Efficiency Induced Draft Gas Furnace

UP-C, DD-C, UP-R, DD-R, UP-R and DD-RY

(Induced Search Sear

SIGN TO 2007. THE LIMITED WARRANTY AND LIABILITY SET FORTH HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES, WHETHER IN CONTRACT OR IN NEGLIGENCE, EXPRESS OR BOULES, IN LIABILITIES, WHETHER IN CONTRACT OR IN NEGLIGENCE, EXPRESS OR BOULES, IN LIABILITY AND FITTIESS FOR PARTICULAR USE, AND IN NO EVENT SHALL WARRANTOR BE LIABLE FOR ARY BUILDENTAL, OF CONSEQUENTIAL DRAINES.

Some states to not allow imitations on incur long an implied imitati warranly lasts or do not allow the exclusion-similation of inclose-list or consequential discrepce, so the electro similation or exclusion may not exply to you. This emitted warrand ylenely you sports buggle signite, and you may also have other explaint which ware from sexual or class. Parts will be provinced by our factory organization through an explorated service organization in your area based in the yeaker pages. If you wish further help or information concerning this limbed wetnersty, assessment

American Standard Ibo. Troup Highway Tyler, TX 75731-5010 Attention: Manager, After Gales Support

This limited workerly to for technologies or size explainted and med specialize when this explainment is used for a consumerial application. A commercial wave to any application values the and purchaser upon the precise for other tree proposeds, Service or translated specialized.

reaction are available from the manufactures Oneugh your dealer. The limited measurity is backed by the and any representations made about notesting the dealer dearrands would be backed by the mountlettures by endoudly we strainly agreement were received from the manufactures.





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User's Information -

Limited Warranty High Efficiency Induced Draft Gas Furnace UD-C, DD-C, UD-R, DD-R, UD-RV and DD-RV (Pist letter ray, be proceeded by an 'A' or 'T') (Parts Orle) Souths Less Than 20 Tons for Commercial Use*

This warranty is extended by American Standard Inc., so the original purchaser and to any succeeding owner of the real property to which the Gas Furnace is originally officed, and applied to product purchased and retained for use within the U.S.A. and Canada. There is no warranty applied corrolled, needloop or deliberation,

for one which the U.S.A. and Chanda. There is no maturary against generating encours of districtation. It amy part of your few Firms from the masses of a missespiciating denter which we year from the claim of the original portation. When when well harden will see the heaps the required inglacement part.

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or and engineers usual valuation forces due to discontinue.

The Warranty and Labelly 5 set footth herden are in Lieu of All Other warrantine and libelines, whether in Contract or in Neglicience, express or warrantines of the 18 pact, froulding replication of the Neglician Contract and the New Advance of Merchardelity and Physics for Pauticular luse, and in No event shall warrantine be lable for any recommendation.

This warranty is for constructed usage of said equipment and not applicable when the analyzers it was for a residential application. Commercial use is any application where the end purchaser uses the product for other data personal, failing to proceed the proposes.

Extension were action are available from the manufactures through your dealer. The instell warranty is backed by the casualterture and any improveduals a raida about solveding the incide warranty would be backed by the namediators of and only of an extensional warranty generated was recovered from the entanglement.





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EMP LARSON 073968

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EHP LARSON 673969

User's Information

Notes Notes





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CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER EHP LARSON 073970

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